



STANDARDIZED

**UXO TECHNOLOGY DEMONSTRATION SITE** 

MOGULS SCORING RECORD NO. 676

SITE LOCATION:
U.S. ARMY ABERDEEN PROVING GROUND

DEMONSTRATOR:
HUMAN FACTORS APPLICATIONS INC.
8 JAY GOULD COURT; UNIT D
WALDORF, MD 2060

TECHNOLOGY TYPE/PLATFORM:
MAGNETOMETER SCHONSTEDT/HAND HELD

PREPARED BY:

U.S. ARMY ABERDEEN TEST CENTER

ABERDEEN PROVING GROUND, MD 21005-5059

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U.S. ARMY DEVELOPMENTAL TEST COMMAND ABERDEEN PROVING GROUND, MD 21005-5055

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## **SECTION 1. GENERAL INFORMATION**

#### 1.1 BACKGROUND

Technologies under development for the detection and discrimination of unexploded ordnance (UXO) require testing so that their performance can be characterized. To that end, Standardized Test Sites have been developed at Aberdeen Proving Ground (APG), Maryland and U.S. Army Yuma Proving Ground (YPG), Arizona. These test sites provide a diversity of geology, climate, terrain, and weather as well as diversity in ordnance and clutter. Testing at these sites is independently administered and analyzed by the government for the purposes of characterizing technologies, tracking performance with system development, comparing performance of different systems, and comparing performance in different environments.

The Standardized UXO Technology Demonstration Site Program is a multi-agency program spearheaded by the U.S. Army Environmental Center (AEC). The U.S. Army Aberdeen Test Center (ATC) and the U.S. Army Corps of Engineers Engineering Research and Development Center (ERDC) provide programmatic support. The program is being funded and supported by the Environmental Security Technology Certification Program (ESTCP), the Strategic Environmental Research and Development Program (SERDP) and the Army Environmental Quality Technology Program (EQT).

# 1.2 SCORING OBJECTIVES

The objective in the Standardized UXO Technology Demonstration Site Program is to evaluate the detection and discrimination capabilities of a given technology under various field and soil conditions. Inert munitions and clutter items are positioned in various orientations and depths in the ground.

The evaluation objectives are as follows:

- a. To determine detection and discrimination effectiveness under realistic scenarios that vary targets, geology, clutter, topography, and vegetation.
  - b. To determine cost, time, and manpower requirements to operate the technology.
- c. To determine demonstrator's ability to analyze survey data in a timely manner and provide prioritized "Target Lists" with associated confidence levels.
- d. To provide independent site management to enable the collection of high quality, ground-truth, geo-referenced data for post-demonstration analysis.

## 1.2.1 Scoring Methodology

a. The scoring of the demonstrator's performance is conducted in two stages. These two stages are termed the RESPONSE STAGE and DISCRIMINATION STAGE. For both stages, the probability of detection  $(P_d)$  and the false alarms are reported as receiver-operating

characteristic (ROC) curves. False alarms are divided into those anomalies that correspond to emplaced clutter items, measuring the probability of false positive ( $P_{fp}$ ), and those that do not correspond to any known item, termed background alarms.

- b. The RESPONSE STAGE scoring evaluates the ability of the system to detect emplaced targets without regard to ability to discriminate ordnance from other anomalies. For the blind grid RESPONSE STAGE, the demonstrator provides the scoring committee with a target response from each and every grid square along with a noise level below which target responses are deemed insufficient to warrant further investigation. This list is generated with minimal processing and, since a value is provided for every grid square, will include signals both above and below the system noise level.
- c. The DISCRIMINATION STAGE evaluates the demonstrator's ability to correctly identify ordnance as such and to reject clutter. For the blind grid DISCRIMINATION STAGE, the demonstrator provides the scoring committee with the output of the algorithms applied in the discrimination-stage processing for each grid square. The values in this list are prioritized based on the demonstrator's determination that a grid square is likely to contain ordnance. Thus, higher output values are indicative of higher confidence that an ordnance item is present at the specified location. For digital signal processing, priority ranking is based on algorithm output. For other discrimination approaches, priority ranking is based on human (subjective) judgment. The demonstrator also specifies the threshold in the prioritized ranking that provides optimum performance, (i.e. that is expected to retain all detected ordnance and rejects the maximum amount of clutter).
- d. The demonstrator is also scored on EFFICIENCY and REJECTION RATIO, which measures the effectiveness of the discrimination stage processing. The goal of discrimination is to retain the greatest number of ordnance detections from the anomaly list, while rejecting the maximum number of anomalies arising from non-ordnance items. EFFICIENCY measures the fraction of detected ordnance retained after discrimination, while the REJECTION RATIO measures the fraction of false alarms rejected. Both measures are defined relative to performance at the demonstrator-supplied level below which all responses are considered noise, i.e., the maximum ordnance detectable by the sensor and its accompanying false positive rate or background alarm rate.
- e. Based on configuration of the ground truth at the standardized sites and the defined scoring methodology, there exists the possibility of having anomalies within overlapping halos and/or multiple anomalies within halos. In these cases, the following scoring logic is implemented:
- (1) In situations where multiple anomalies exist within a single  $R_{halo}$ , the anomaly with the strongest response or highest ranking will be assigned to that particular ground truth item.
- (2) For overlapping  $R_{halo}$  situations, ordnance has precedence over clutter. The anomaly with the strongest response or highest ranking that is closest to the center of a particular ground truth item gets assigned to that item. Remaining anomalies are retained until all matching is complete.

- (3) Anomalies located within any  $R_{halo}$  that do not get associated with a particular ground truth item are thrown out and are not considered in the analysis.
- f. All scoring factors are generated utilizing the Standardized UXO Probability and Plot Program, version 3.1.1.

#### 1.2.2 Scoring Factors

Factors to be measured and evaluated as part of this demonstration include:

- a. Response Stage ROC curves:
- (1) Probability of Detection (P<sub>d</sub> res).
- (2) Probability of False Positive (Pfp res).
- (3) Background Alarm Rate (BAR<sup>res</sup>) or Probability of Background Alarm (P<sub>BA</sub><sup>res</sup>).
- b. Discrimination Stage ROC curves:
- (1) Probability of Detection (P<sub>d</sub><sup>disc</sup>).
- (2) Probability of False Positive (P<sub>fp</sub> disc).
- (3) Background Alarm Rate (BAR<sup>disc</sup>) or Probability of Background Alarm (P<sub>BA</sub><sup>disc</sup>).
- c. Metrics:
- (1) Efficiency (E).
- (2) False Positive Rejection Rate (R<sub>fp</sub>).
- (3) Background Alarm Rejection Rate (R<sub>BA</sub>).
- d. Other:
- (1) Probability of Detection by Size and Depth.
- (2) Classification by type (i.e., 20-, 40-, 105-mm, etc.).
- (3) Location accuracy.
- (4) Equipment setup, calibration time and corresponding man-hour requirements.
- (5) Survey time and corresponding man-hour requirements.

- (6) Reacquisition/resurvey time and man-hour requirements (if any).
- (7) Downtime due to system malfunctions and maintenance requirements.

## 1.3 STANDARD AND NONSTANDARD INERT ORDNANCE TARGETS

The standard and nonstandard ordnance items emplaced in the test areas are listed in Table 1. Standardized targets are members of a set of specific ordnance items that have identical properties to all other items in the set (caliber, configuration, size, weight, aspect ratio, material, filler, magnetic remanence, and nomenclature). Nonstandard targets are inert ordnance items having properties that differ from those in the set of standardized targets.

TABLE 1. INERT ORDNANCE TARGETS

Standard Type	Nonstandard (NS)
20-mm Projectile M55	20-mm Projectile M55
	20-mm Projectile M97
40-mm Grenades M385	40-mm Grenades M385
40-mm Projectile MKII Bodies	40-mm Projectile M813
BDU-28 Submunition	
BLU-26 Submunition	
M42 Submunition	
57-mm Projectile APC M86	
60-mm Mortar M49A3	60-mm Mortar (JPG)
	60-mm Mortar M49
2.75-inch Rocket M230	2.75-inch Rocket M230
	2.75-inch Rocket XM229
MK 118 ROCKEYE	
81-mm Mortar M374	81-mm Mortar (JPG)
	81-mm Mortar M374
105-mm HEAT Rounds M456	
105-mm Projectile M60	105-mm Projectile M60
155-mm Projectile M483A1	155-mm Projectile M483A
	500-lb Bomb

JPG = Jefferson Proving Ground HEAT = high-explosive antitank

## **SECTION 2. DEMONSTRATION**

#### 2.1 DEMONSTRATOR INFORMATION

## 2.1.1 Demonstrator Point of Contact (POC) and Address

POC: Mr. Scott Hemstreet

301-705-5044

shemstreet@hfactors.com

Address: Human Factors Applications, Inc.

8 Jay Gould Court, Unit D Waldorf, MD 20602

## 2.1.2 System Description (provided by demonstrator)

Schonstedt 52Cx Ordnance Locator. Schonstedt Magnetometers are ferrous metal locators and will only detect iron or magnetic materials (fig. 1). The size and orientation of the target and the soil characteristics of the work area limit the depth of detection. The instrument is not capable of classifying the anomaly; it will only indicate the presence or absence of a magnetic anomaly.

Schonstedt Magnetometers do not require calibration. They have a simple battery function test and a Go/No Go field operational check. The magnetometers will be set in accordance with the manufacturer's handbook to the sensitivity required to detect subsurface anomalies on the project site.



Figure 1. Demonstrator's system, Magnetometer Schonstedt/hand held.

## 2.1.3 Data Processing Description (provided by demonstrator)

The HFA UXO team will place a plastic pin flag in the ground to record the location of a subsurface anomaly. ATC personnel will survey in the location of this flag to determine the accuracy of the MAG and Flag process.

## 2.1.4 Data Submission Format

Data were submitted for scoring in accordance with data submission protocols outlined in the Standardized UXO Technology Demonstration Site Handbook. These submitted data are not included in this report in order to protect ground truth information.

# 2.1.5 <u>Demonstrator Quality Assurance (QA) and Quality Control (QC) (provided by demonstrator)</u>

Magnetometer(s) will be tested daily before starting UXO operations in the morning. The UXO Technician III will perform random checks during daily operations to ensure the equipment is operating and being operated properly. If a magnetometer does not pass the daily check, it will be repaired or replaced.

The Master Rated UXO Technician (UXO Technician III) will perform a random QC survey over the entire project site. This random survey will include a 100 percent survey of a 10-foot radius around all sites where ordnance items have been located. If an ordnance item is discovered during the QC survey, 100 percent of the site will be resurveyed

Overview of Quality Assurance (QA): Test site to compare flagged anomaly locations to known locations of test items.

#### 2.1.6 Additional Records

The following record(s) by this vendor can be accessed via the Internet as MicroSoft Word documents at <a href="www.uxotestsites.org">www.uxotestsites.org</a>. The counterparts to this report are the Blind Grid, Scoring Record No. 237, the Open Field, Scoring Record No. 231, and the Woods, Scoring Record No. 486.

#### 2.2 APG SITE INFORMATION

## 2.2.1 Location

The APG Standardized Test Site is located within a secured range area of the Aberdeen Area. The Aberdeen Area of APG is located approximately 30 miles northeast of Baltimore at the northern end of the Chesapeake Bay. The Standardized Test Site encompasses 17 acres of upland and lowland flats, woods and wetlands.

## 2.2.2 Soil Type

According to the soils survey conducted for the entire area of APG in 1998, the test site consists primarily of Elkton Series type soil (ref 2). The Elkton Series consist of very deep, slowly permeable, poorly drained soils. These soils formed in silty aeolin sediments and the underlying loamy alluvial and marine sediments. They are on upland and lowland flats and in depressions of the Mid-Atlantic Coastal Plain. Slopes range from 0 to 2 percent.

ERDC conducted a site-specific analysis in May of 2002 (ref 3). The results basically matched the soil survey mentioned above. Seventy percent of the samples taken were classified as silty loam. The majority (77 percent) of the soil samples had a measured water content between 15- and 30-percent with the water content decreasing slightly with depth.

For more details concerning the soil properties at the APG test site, go to www.uxotestsites.org on the web to view the entire soils description report.

## 2.2.3 Test Areas

A description of the test site areas at APG is included in Table 2.

TABLE 2. TEST SITE AREAS

Area	Description
Calibration Grid	Contains 14 standard ordnance items buried in six positions at various angles and depths to allow demonstrator to calibrate their equipment.
Blind Test Grid	Contains 400 grid cells in a 0.2-hectare (0.5 acre) site. The center of each grid cell contains ordnance, clutter or nothing.
Open Field	A 4-hectare (10-acre) site containing open areas, dips, ruts and obstructions that challenge platform systems or hand held detectors. The challenges include a gravel road, wet areas and trees. The vegetation height varies from 15 to 25 cm.
Moguls	A 1.30-acre area consisting of two areas (the rectangular or driving portion of the course and the triangular section with more difficult, non-drivable terrain). A series of craters (as deep as 0.91m) and mounds (as high as 0.91m) encompass this section.

## **SECTION 3. FIELD DATA**

## 3.1 DATE OF FIELD ACTIVITIES (19 through 20 July 2004)

#### 3.2 AREAS TESTED/NUMBER OF HOURS

Areas tested and total number of hours operated at each site are summarized in Table 3.

TABLE 3. AREAS TESTED AND NUMBER OF HOURS

Area	Number of Hours
Calibration Lanes	3.33
Mogul	10.33

#### 3.3 TEST CONDITIONS

## 3.3.1 Weather Conditions

An APG weather station located approximately one mile west of the test site was used to record average temperature and precipitation on a half hour basis for each day of operation. The temperatures listed in Table 4 represent the average temperature during field operations from 0700 to 1700 hours while precipitation data represents a daily total amount of rainfall. Hourly weather logs used to generate this summary are provided in Appendix B.

TABLE 4. TEMPERATURE/PRECIPITATION DATA SUMMARY

Date, 2004	Average Temperature, °F	Total Daily Precipitation, in.
July 19	75.45	0.00
July 20	80.23	0.00

## 3.3.2 Field Conditions

HFA surveyed the Moguls 19 through 20 July 2004. The Moguls had several muddy areas due to rain prior and during testing.

## 3.3.3 Soil Moisture

Three soil probes were placed at various locations within the site to capture soil moisture data: Blind Grid, Calibration, Open Field, and Wooded areas. Measurements were collected in percent moisture and were taken twice daily (morning and afternoon) from five different soil depths (1 to 6 in., 6 to 12 in., 12 to 24 in., 24 to 36 in., and 36 to 48 in.) from each probe. Soil moisture logs are included in Appendix C.

#### 3.4 FIELD ACTIVITIES

## 3.4.1 Setup/Mobilization

These activities included initial mobilization and daily equipment preparation and break down. A two-person crew took 15 minutes to perform the initial setup and mobilization. There was 5 hours and 30 minutes of daily equipment preparation and end of the day equipment break down lasted 10 minutes.

#### 3.4.2 Calibration

HFA spent a total of 3 hours and 20 minutes in the calibration lanes, 1-hour and 20 minutes of which was spent collecting data.

## 3.4.3 **Downtime Occasions**

Occasions of downtime are grouped into five categories: equipment/data checks or equipment maintenance, equipment failure and repair, weather, Demonstration Site issues, or breaks/lunch. All downtime is included for the purposes of calculating labor costs (section 5) except for downtime due to Demonstration Site issues. Demonstration Site issues, while noted in the Daily Log, are considered non-chargeable downtime for the purposes of calculating labor costs and are not discussed. Breaks and lunches are discussed in this section and billed to the total Site Survey area.

- **3.4.3.1** Equipment/data checks, maintenance. Equipment data checks and maintenance activities accounted for no site usage time. These activities included changing out batteries and routine data checks to ensure the data was being properly recorded/collected. HFA spent an additional 1-hour and 5 minutes for breaks and lunches.
- **3.4.3.2** Equipment failure or repair. No time was needed to resolve equipment failures that occurred while surveying the Moguls.
- **3.4.3.3** Weather. No weather delays occurred during the survey.

## 3.4.4 Data Collection

HFA spent a total time of 10 hours and 20 minutes in the Mogul area, 3 hours and 35 minutes of which was spent collecting data.

## 3.4.5 <u>Demobilization</u>

The HFA survey crew went on to conducted a full demonstration of the site. Therefore, demobilization did not occur until 20 July 2004. On that day, it took the crew 10 minutes to break down and pack up their equipment.

#### 3.5 PROCESSING TIME

HFA submitted the raw data from the demonstration activities on the last day of the demonstration, as required. The scoring submittal data was also provided within the required 30-day timeframe.

#### 3.6 DEMONSTRATOR'S FIELD PERSONNEL

Mr. Bob Dyminski

Mr. Joe Curtis

Mr. Rusty Mitchell

Mr. Al Wittington

#### 3.7 DEMONSTRATOR'S FIELD SURVEYING METHOD

HFA began surveying the Moguls in the northeast corner and continued in a north/south direction. HFA surveyed the woods in a linear fashion. HFA set up 50 by 50 meter grids and swept them using a line spacing of 5 ft.

An ATC team provided surveying support to HFA (which is not included in the overall time breakdown). The HFA team's purpose was to locate and flag all items found.

#### 3.8 SUMMARY OF DAILY LOGS

No problems occurred while HFA surveyed the moguls. The field conditions were poor due to rain that fell prior to and during testing

## **SECTION 4. TECHNICAL PERFORMANCE RESULTS**

#### 4.1 ROC CURVES USING ALL ORDNANCE CATEGORIES

(Not applicable for this technology)

#### 4.2 ROC CURVES USING ORDNANCE LARGER THAN 20 MM

(Not applicable for this technology)

#### 4.3 PERFORMANCE SUMMARIES

Results for the Mogul Area test, broken out by size, depth and nonstandard ordnance, are presented in Tables 5a and 5b (for cost results, see section 5). Results by size and depth include both standard and nonstandard ordnance. The results by size show how well the demonstrator did at detecting/discriminating ordnance of a certain caliber range (see app A for size definitions). The results are relative to the number of ordnances emplaced. Depth is measured from the geometric center of anomalies.

The RESPONSE STAGE results are derived from the list of anomalies above the demonstrator-provided noise level. The results for the DISCRIMINATION STAGE are derived from the demonstrator's recommended threshold for optimizing UXO field cleanup by minimizing false digs and maximizing ordnance recovery. The lower 90-percent confidence limit on probability of detection and probability of false positive was calculated assuming that the number of detections and false positives are binomially distributed random variables. All results in Tables 5a and 5b have been rounded to protect the ground truth. However, lower confidence limits were calculated using actual results.

The overall ground truth is composed of ferrous and non-ferrous anomalies. Due to limitations of the magnetometer, the non-ferrous items cannot be detected. Therefore, the summary presented in Table 5a exhibits results based on the subset of the ground truth that is solely the ferrous anomalies. Table 5b exhibits results based on the full ground truth. All other tables presented in this section are based on scoring against the ferrous only ground truth. The response stage noise level and recommended discrimination stage threshold values are provided by the demonstrator.

TABLE 5a. SUMMARY OF MOGUL RESULTS (FERROUS ONLY)

				By Size		By Depth, m			
Metric	Overall	Standard	Nonstandard	Small	Medium	Large	< 0.3	0.3 to <1	>= 1
	RESPONSE STAGE								
$P_d$	0.40	0.45	0.30	0.30	0.40	0.55	0.45	0.35	0.25
Pd Low 90% Conf	0.34	0.36	0.24	0.23	0.33	0.40	0.39	0.27	0.11
P <sub>d</sub> Upper 90% Conf	0.44	0.51	0.41	0.39	0.50	0.68	0.55	0.44	0.38
$P_{fp}$	0.50	-	-	-		-	0.60	0.35	0.25
P <sub>fp</sub> Low 90% Conf	0.45	-	-	-	-	-	0.55	0.32	0.07
P <sub>fp</sub> Upper 90% Conf	0.52	-	-	-	-	-	0.64	0.41	0.54
BAR	1.55	-	-	-	-	-	-	-	-
			DISCRIMINATIO	N STAG	E				
$P_d$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P <sub>d</sub> Low 90% Conf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P <sub>d</sub> Upper 90% Conf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$P_{fp}$	N/A	-	-	-	-	-	N/A	N/A	N/A
P <sub>fp</sub> Low 90% Conf	N/A	-	-	-	-	-	N/A	N/A	N/A
P <sub>fp</sub> Upper 90% Conf	N/A	-	_	-	-	-	N/A	N/A	N/A
BAR	N/A	-		-	-	-	-	-	-

Response Stage Noise Level: 0.00.

Recommended Discrimination Stage Threshold: 0.00.

TABLE 5b. SUMMARY OF MOGUL RESULTS (FULL GROUND TRUTH)

				By Size		By Depth, m			
Metric	Overall	Standard	Nonstandard	Small	Medium	Large	< 0.3	0.3 to <1	>= 1
			RESPONSE ST	<b>FAGE</b>					
$P_d$	0.35	0.40	0.30	0.25	0.40	0.55	0.40	0.35	0.20
P <sub>d</sub> Low 90% Conf	0.31	0.33	0.23	0.20	0.33	0.40	0.34	0.25	0.11
P <sub>d</sub> Upper 90% Conf	0.41	0.46	0.38	0.33	0.50	0.68	0.48	0.42	0.37
$P_{fp}$	0.50	-	-	-	-	-	0.60	0.35	0.35
P <sub>fp</sub> Low 90% Conf	0.45	-	-	-	-	-	0.53	0.32	0.13
P <sub>fp</sub> Upper 90% Conf	0.51	-	-	-	-		0.62	0.41	0.60
BAR	1.55	-	-	-	-	-	-	-	
			DISCRIMINATIO	N STAG	E				
$P_d$	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P <sub>d</sub> Low 90% Conf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P <sub>d</sub> Upper 90% Conf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$P_{\mathrm{fp}}$	N/A	-	-	-	-	-			N/A
P <sub>fp</sub> Low 90% Conf	N/A	-	-	-	-	-			N/A
P <sub>fp</sub> Upper 90% Conf	N/A	-	-	-	-	-			N/A
BAR	N/A	-	-	-	-	-	-	-	-

Response Stage Noise Level: 0.00.

Recommended Discrimination Stage Threshold 0.00.

Note: The recommended discrimination stage threshold values are provided by the demonstrator.

No discrimination algorithm was applied. Therefore, the discrimination stage results are not applicable.

## 4.4 EFFICIENCY, REJECTION RATES, AND TYPE CLASSIFICATION

Due to technical limitations of the system used for this demonstration, no attempt was made to discriminate. Therefore, the following tables presented in this section are not applicable.

Efficiency and rejection rates are calculated to quantify the discrimination ability at specific points of interest on the ROC curve: (1) at the point where no decrease in  $P_d$  is suffered (i.e., the efficiency is by definition equal to one) and (2) at the operator selected threshold. These values are reported in Table 6.

TABLE 6. EFFICIENCY AND REJECTION RATES

	Efficiency (E)	False Positive Rejection Rate	Background Alarm Rejection Rate
At Operating Point	N/A	N/A	N/A
With No Loss of Pd	N/A	N/A	N/A

At the demonstrator's recommended setting, the ordnance items that were detected and correctly discriminated were further scored on whether their correct type could be identified (table 7). Correct type examples include "20-mm projectile, 105-mm HEAT Projectile, and 2.75-inch Rocket". A list of the standard type declaration required for each ordnance item was provided to demonstrators prior to testing. For example, the standard type for the three example items are 20mmP, 105H, and 2.75in, respectively.

TABLE 7. CORRECT TYPE CLASSIFICATION
OF TARGETS CORRECTLY
DISCRIMINATED AS UXO

Size	Percentage Correct
Small	N/A
Medium	N/A
Large	N/A
Overall	N/A

## 4.5 LOCATION ACCURACY

The mean location error and standard deviations appear in Table 8. These calculations are based on average missed depth for ordnance correctly identified in the discrimination stage. Depths are measured from the closest point of the ordnance to the surface. For the Blind Grid, only depth errors are calculated, since (X, Y) positions are known to be the centers of each grid square.

TABLE 8. MEAN LOCATION ERROR AND STANDARD DEVIATION (M)

	Mean	Standard Deviation
Northing	-0.03	0.17
Easting	-0.02	0.17
Depth	N/A	N/A

Note: Demonstrator did not attempt to declare depth of detection.

## **SECTION 5. ON-SITE LABOR COSTS**

A standardized estimate for labor costs associated with this effort was calculated as follows: the first person at the test site was designated "supervisor", the second person was designated "data analyst", and the third and following personnel were considered "field support". Standardized hourly labor rates were charged by title: supervisor at \$95.00/hour, data analyst at \$57.00/hour, and field support at \$28.50/hour.

Government representatives monitored on-site activity. All on-site activities were grouped into one of ten categories: initial setup/mobilization, daily setup/stop, calibration, collecting data, downtime due to break/lunch, downtime due to equipment failure, downtime due to equipment/data checks or maintenance, downtime due to weather, downtime due to demonstration site issue, or demobilization. See Appendix D for the daily activity log. See section 3.4 for a summary of field activities.

The standardized cost estimate associated with the labor needed to perform the field activities is presented in Table 9. Note that calibration time includes time spent in the Calibration Lanes as well as field calibrations. "Site survey time" includes daily setup/stop time, collecting data, breaks/lunch, downtime due to equipment/data checks or maintenance, downtime due to failure, and downtime due to weather.

TABLE 9. ON-SITE LABOR COSTS

	No. People	Hourly Wage	Hours	Cost
		Initial Setup		
Supervisor	1	\$95.00	0.25	\$23.75
Data Analyst	0	57.00	0.25	0.00
Field Support	1	28.50	0.25	7.13
SubTotal				\$30.88
		Calibration		
Supervisor	1	\$95.00	3.33	\$316.35
Data Analyst	0	57.00	3.33	0.00
Field Support	1	28.50	3.33	94.91
SubTotal				\$411.26
		Site Survey		
Supervisor	1	\$95.00	10.33	\$981.35
Data Analyst	0	57.00	10.33	0.00
Field Support	3	28.50	10.33	883.22
SubTotal				\$1,864.57

See notes at end of table.

TABLE 9 (CONT'D)

	No. People	Hourly Wage	Hours	Cost					
	Demobilization								
Supervisor	1	\$95.00	0.17	\$16.15					
Data Analyst	0	57.00	0.17	0.00					
Field Support	3	28.50	0.17	14.54					
Subtotal				\$30.69					
Total				\$2,337.40					

Notes: Calibration time includes time spent in the Calibration Lanes as well as calibration before each data run.

Site Survey time includes daily setup/stop time, collecting data, breaks/lunch, downtime due to system maintenance, failure, and weather.

# SECTION 6. COMPARISON OF RESULTS TO OPEN FIELD DEMONSTRATION (BASED ON FERROUS ONLY GROUND TRUTH)

## 6.1 SUMMARY OF RESULTS FROM OPEN FIELD DEMONSTRATION

Table 10 shows the results from the Open Field survey conducted prior to surveying the Moguls during the same site visit in July of 2004. Due to the system utilizing magnetometer type sensors, all results presented in the following section have been based on performance scoring against the ferrous only ground truth anomalies. For more details on the Open Field survey results reference section 2.1.6.

TABLE 10. SUMMARY OF OPEN FIELD RESULTS FOR THE MAGNETOMOETER SCHONSTEDT/HAND HELD (FERROUS ONLY)

				By Size			By Depth, m		
Metric	Overall	Standard	Nonstandard	Small	Medium	Large	< 0.3	0.3 to <1	>= 1
RESPONSE STAGE									
P <sub>d</sub>	0.50	0.55	0.45	0.50	0.50	0.55	0.70	0.45	0.25
P <sub>d</sub> Low 90% Conf	0.48	0.52	0.38	0.42	0.45	0.48	0.67	0.36	0.16
P <sub>d</sub> Upper 90% Conf	0.55	0.62	0.50	0.55	0.57	0.64	0.77	0.49	0.31
$P_{fp}$	0.50	-	-	-	-	-	0.50	0.50	0.55
P <sub>fp</sub> Low 90% Conf	0.47	-	-	-	-	-	0.47	0.45	0.38
P <sub>fp</sub> Upper 90% Conf	0.52	-	-	-	- <u>-</u>	-	0.53	0.51	0.74
BAR	0.75	-	-	-	-	-	-	-	
			DISCRIMINATIO	N STAG	E				
P <sub>d</sub>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P <sub>d</sub> Low 90% Conf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P <sub>d</sub> Upper 90% Conf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
$P_{fp}$	N/A	-	-	-	-	-	N/A	N/A	N/A
P <sub>fp</sub> Low 90% Conf	N/A	-	-	-	-	-	N/A	N/A	N/A
P <sub>fp</sub> Upper 90% Conf	N/A	-	-	-	-	-	N/A	N/A	N/A
BAR	N/A	-	-	-	-	-	-	-	-

## 6.2 COMPARISON OF ROC CURVES USING ALL ORDNANCE CATEGORIES

(Not applicable for this technology)

## 6.3 COMPARISON OF ROC CURVES USING ORDNANCE LARGER THAN 20 MM

(Not applicable for this technology)

## **6.4 STATISTICAL COMPARISONS**

Statistical Chi-square significance tests were used to compare results between the Open Field and Mogul Area scenarios. The intent of the comparison is to determine if the feature introduced in each scenario has a degrading effect on the performance of the sensor system. However, any modifications in the UXO sensor system during the test, like changes in the processing or changes in the selection of the operating threshold, will also contribute to performance differences.

The Chi-square test for comparison between ratios was used at a significance level of 0.05 to compare Open Field to Mogul Area with regard to  $P_d^{res}$ ,  $P_d^{disc}$ ,  $P_{fp}^{res}$  and  $P_{fp}^{disc}$ , Efficiency and Rejection Rate. These results are presented in Table 11. A detailed explanation and example of the Chi-square application is located in Appendix A.

TABLE 11. CHI-SQUARE RESULTS – OPEN FIELD VERSUS MOGULS

Metric	Small	Medium	Large	Overall
P <sub>d</sub> res	Significant	Not Significant	Significant	Significant
$P_d^{disc}$	N/A	N/A	N/A	N/A
P <sub>fp</sub> res	Not Significant	Not Significant	Not Significant	Not Significant
P <sub>fp</sub> disc	-	-	-	N/A
Efficiency	-	-	_	N/A
Rejection rate	-	-	-	N/A

## **SECTION 7. APPENDIXES**

#### APPENDIX A. TERMS AND DEFINITIONS

#### **GENERAL DEFINITIONS**

Anomaly: Location of a system response deemed to warrant further investigation by the demonstrator for consideration as an emplaced ordnance item.

Detection: An anomaly location that is within R<sub>halo</sub> of an emplaced ordnance item.

Emplaced Ordnance: An ordnance item buried by the government at a specified location in the test site.

Emplaced Clutter: A clutter item (i.e., non-ordnance item) buried by the government at a specified location in the test site.

 $R_{halo}$ : A pre-determined radius about the periphery of an emplaced item (clutter or ordnance) within which a location identified by the demonstrator as being of interest is considered to be a response from that item. If multiple declarations lie within  $R_{halo}$  of any item (clutter or ordnance), the declaration with the highest signal output within the  $R_{halo}$  will be utilized. For the purpose of this program, a circular halo 0.5 meters in radius will be placed around the center of the object for all clutter and ordnance items less than 0.6 meters in length. When ordnance items are longer than 0.6 meters, the halo becomes an ellipse where the minor axis remains 1 meter and the major axis is equal to the length of the ordnance plus 1 meter.

Small Ordnance: Caliber of ordnance less than or equal to 40 mm (includes 20-mm projectile, 40-mm projectile, submunitions BLU-26, BLU-63, and M42).

Medium Ordnance: Caliber of ordnance greater than 40 mm and less than or equal to 81 mm (includes 57-mm projectile, 60-mm mortar, 2.75 in. Rocket, MK118 Rockeye, 81-mm mortar).

Large Ordnance: Caliber of ordnance greater than 81 mm (includes 105-mm HEAT, 105-mm projectile, 155-mm projectile, 500-pound bomb).

Shallow: Items buried less than 0.3 meter below ground surface.

Medium: Items buried greater than or equal to 0.3 meter and less than 1 meter below ground surface.

Deep: Items buried greater than or equal to 1 meter below ground surface.

Response Stage Noise Level: The level that represents the point below which anomalies are not considered detectable. Demonstrators are required to provide the recommended noise level for the Blind Grid test area.

Discrimination Stage Threshold: The demonstrator selected threshold level that they believe provides optimum performance of the system by retaining all detectable ordnance and rejecting the maximum amount of clutter. This level defines the subset of anomalies the demonstrator would recommend digging based on discrimination.

Binomially Distributed Random Variable: A random variable of the type which has only two possible outcomes, say success and failure, is repeated for n independent trials with the probability p of success and the probability 1-p of failure being the same for each trial. The number of successes x observed in the n trials is an estimate of p and is considered to be a binomially distributed random variable.

#### RESPONSE AND DISCRIMINATION STAGE DATA

The scoring of the demonstrator's performance is conducted in two stages. These two stages are termed the RESPONSE STAGE and DISCRIMINATION STAGE. For both stages, the probability of detection  $(P_d)$  and the false alarms are reported as receiver operating characteristic (ROC) curves. False alarms are divided into those anomalies that correspond to emplaced clutter items, measuring the probability of false positive  $(P_{fp})$  and those that do not correspond to any known item, termed background alarms.

The RESPONSE STAGE scoring evaluates the ability of the system to detect emplaced targets without regard to ability to discriminate ordnance from other anomalies. For the RESPONSE STAGE, the demonstrator provides the scoring committee with the location and signal strength of all anomalies that the demonstrator has deemed sufficient to warrant further investigation and/or processing as potential emplaced ordnance items. This list is generated with minimal processing (e.g., this list will include all signals above the system noise threshold). As such, it represents the most inclusive list of anomalies.

The DISCRIMINATION STAGE evaluates the demonstrator's ability to correctly identify ordnance as such, and to reject clutter. For the same locations as in the RESPONSE STAGE anomaly list, the DISCRIMINATION STAGE list contains the output of the algorithms applied in the discrimination-stage processing. This list is prioritized based on the demonstrator's determination that an anomaly location is likely to contain ordnance. Thus, higher output values are indicative of higher confidence that an ordnance item is present at the specified location. For electronic signal processing, priority ranking is based on algorithm output. For other systems, priority ranking is based on human judgment. The demonstrator also selects the threshold that the demonstrator believes will provide "optimum" system performance, (i.e., that retains all the detected ordnance and rejects the maximum amount of clutter).

Note: The two lists provided by the demonstrator contain identical numbers of potential target locations. They differ only in the priority ranking of the declarations.

#### RESPONSE STAGE DEFINITIONS

Response Stage Probability of Detection ( $P_d^{res}$ ):  $P_d^{res} = (No. of response-stage detections)/(No. of emplaced ordnance in the test site).$ 

Response Stage False Positive ( $fp^{res}$ ): An anomaly location that is within  $R_{halo}$  of an emplaced clutter item.

Response Stage Probability of False Positive ( $P_{fp}^{res}$ ):  $P_{fp}^{res}$  = (No. of response-stage false positives)/(No. of emplaced clutter items).

Response Stage Background Alarm (ba $^{res}$ ): An anomaly in a blind grid cell that contains neither emplaced ordnance nor an emplaced clutter item. An anomaly location in the open field or scenarios that is outside  $R_{halo}$  of any emplaced ordnance or emplaced clutter item.

Response Stage Probability of Background Alarm ( $P_{ba}^{res}$ ): Blind Grid only:  $P_{ba}^{res} = (No. of response-stage background alarms)/(No. of empty grid locations).$ 

Response Stage Background Alarm Rate (BAR<sup>res</sup>): Open Field only: BAR<sup>res</sup> = (No. of response-stage background alarms)/(arbitrary constant).

Note that the quantities  $P_d^{res}$ ,  $P_{fp}^{res}$ ,  $P_{ba}^{res}$ , and  $BAR^{res}$  are functions of  $t^{res}$ , the threshold applied to the response-stage signal strength. These quantities can therefore be written as  $P_d^{res}(t^{res})$ ,  $P_{fp}^{res}(t^{res})$ ,  $P_{ba}^{res}(t^{res})$ , and  $BAR^{res}(t^{res})$ .

#### DISCRIMINATION STAGE DEFINITIONS

Discrimination: The application of a signal processing algorithm or human judgment to response-stage data that discriminates ordnance from clutter. Discrimination should identify anomalies that the demonstrator has high confidence correspond to ordnance, as well as those that the demonstrator has high confidence correspond to nonordnance or background returns. The former should be ranked with highest priority and the latter with lowest.

Discrimination Stage Probability of Detection  $(P_d^{disc})$ :  $P_d^{disc} = (No. of discrimination-stage detections)/(No. of emplaced ordnance in the test site).$ 

Discrimination Stage False Positive (fp $^{disc}$ ): An anomaly location that is within  $R_{halo}$  of an emplaced clutter item.

Discrimination Stage Probability of False Positive ( $P_{fp}^{disc}$ ):  $P_{fp}^{disc}$  = (No. of discrimination stage false positives)/(No. of emplaced clutter items).

Discrimination Stage Background Alarm (ba<sup>disc</sup>): An anomaly in a blind grid cell that contains neither emplaced ordnance nor an emplaced clutter item. An anomaly location in the open field or scenarios that is outside  $R_{halo}$  of any emplaced ordnance or emplaced clutter item.

Discrimination Stage Probability of Background Alarm ( $P_{ba}^{disc}$ ):  $P_{ba}^{disc}$  = (No. of discrimination-stage background alarms)/(No. of empty grid locations).

Discrimination Stage Background Alarm Rate (BAR<sup>disc</sup>): BAR<sup>disc</sup> = (No. of discrimination-stage background alarms)/(arbitrary constant).

Note that the quantities  $P_d^{disc}$ ,  $P_{fp}^{disc}$ ,  $P_{ba}^{disc}$ , and  $BAR^{disc}$  are functions of  $t^{disc}$ , the threshold applied to the discrimination-stage signal strength. These quantities can therefore be written as  $P_d^{disc}(t^{disc})$ ,  $P_{fp}^{disc}(t^{disc})$ ,  $P_{ba}^{disc}(t^{disc})$ , and  $BAR^{disc}(t^{disc})$ .

#### RECEIVER-OPERATING CHARACERISTIC (ROC) CURVES

ROC curves at both the response and discrimination stages can be constructed based on the above definitions. The ROC curves plot the relationship between  $P_d$  versus  $P_{fp}$  and  $P_d$  versus BAR or  $P_{ba}$  as the threshold applied to the signal strength is varied from its minimum ( $t_{min}$ ) to its maximum ( $t_{max}$ ) value. Figure A-1 shows how  $P_d$  versus  $P_{fp}$  and  $P_d$  versus BAR are combined into ROC curves. Note that the "res" and "disc" superscripts have been suppressed from all the variables for clarity.

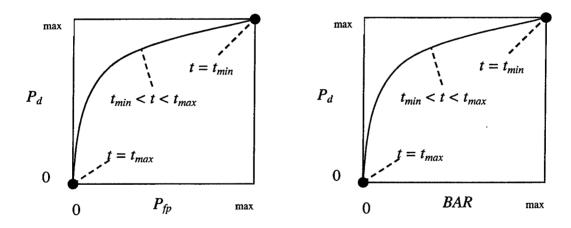


Figure A-1. ROC curves for open field testing. Each curve applies to both the response and discrimination stages.

¹Strictly speaking, ROC curves plot the P<sub>d</sub> versus P<sub>ba</sub> over a pre-determined and fixed number of detection opportunities (some of the opportunities are located over ordnance and others are located over clutter or blank spots). In an open field scenario, each system suppresses its signal strength reports until some bare-minimum signal response is received by the system. Consequently, the open field ROC curves do not have information from low signal-output locations, and, furthermore, different contractors report their signals over a different set of locations on the ground. These ROC curves are thus not true to the strict definition of ROC curves as defined in textbooks on detection theory. Note, however, that the ROC curves obtained in the Blind Grid test sites are true ROC curves.

#### METRICS TO CHARACTERIZE THE DISCRIMINATION STAGE

The demonstrator is also scored on efficiency and rejection ratio, which measure the effectiveness of the discrimination stage processing. The goal of discrimination is to retain the greatest number of ordnance detections from the anomaly list, while rejecting the maximum number of anomalies arising from nonordnance items. The efficiency measures the amount of detected ordnance retained by the discrimination, while the rejection ratio measures the fraction of false alarms rejected. Both measures are defined relative to the entire response list, i.e., the maximum ordnance detectable by the sensor and its accompanying false positive rate or background alarm rate.

Efficiency (E):  $E = P_d^{disc}(t^{disc})/P_d^{res}(t_{min}^{res})$ ; Measures (at a threshold of interest), the degree to which the maximum theoretical detection performance of the sensor system (as determined by the response stage tmin) is preserved after application of discrimination techniques. Efficiency is a number between 0 and 1. An efficiency of 1 implies that all of the ordnance initially detected in the response stage was retained at the specified threshold in the discrimination stage,  $t^{disc}$ .

False Positive Rejection Rate  $(R_{fp})$ :  $R_{fp} = 1 - [P_{fp}^{disc}(t^{disc})/P_{fp}^{res}(t_{min}^{res})]$ ; Measures (at a threshold of interest), the degree to which the sensor system's false positive performance is improved over the maximum false positive performance (as determined by the response stage tmin). The rejection rate is a number between 0 and 1. A rejection rate of 1 implies that all emplaced clutter initially detected in the response stage were correctly rejected at the specified threshold in the discrimination stage.

Background Alarm Rejection Rate (Rba):

Blind Grid: 
$$R_{ba} = 1 - [P_{ba}^{disc}(t^{disc})/P_{ba}^{res}(t_{min}^{res})].$$
  
Open Field:  $R_{ba} = 1 - [BAR^{disc}(t^{disc})/BAR^{res}(t_{min}^{res})].$ 

Measures the degree to which the discrimination stage correctly rejects background alarms initially detected in the response stage. The rejection rate is a number between 0 and 1. A rejection rate of 1 implies that all background alarms initially detected in the response stage were rejected at the specified threshold in the discrimination stage.

#### CHI-SQUARE COMPARISON EXPLANATION:

The Chi-square test for differences in probabilities (or 2 x 2 contingency table) is used to analyze two samples drawn from two different populations to see if both populations have the same or different proportions of elements in a certain category. More specifically, two random samples are drawn, one from each population, to test the null hypothesis that the probability of event A (some specified event) is the same for both populations (ref 3).

A 2 x 2 contingency table is used in the Standardized UXO Technology Demonstration Site Program to determine if there is reason to believe that the proportion of ordnance correctly detected/discriminated by demonstrator X's system is significantly degraded by the more challenging terrain feature introduced. The test statistic of the 2 x 2 contingency table is the

Chi-square distribution with one degree of freedom. Since an association between the more challenging terrain feature and relatively degraded performance is sought, a one-sided test is performed. A significance level of 0.05 is chosen which sets a critical decision limit of 2.71 from the Chi-square distribution with one degree of freedom. It is a critical decision limit because if the test statistic calculated from the data exceeds this value, the two proportions tested will be considered significantly different. If the test statistic calculated from the data is less than this value, the two proportions tested will be considered not significantly different.

An exception must be applied when either a 0 or 100 percent success rate occurs in the sample data. The Chi-square test cannot be used in these instances. Instead, Fischer's test is used and the critical decision limit for one-sided tests is the chosen significance level, which in this case is 0.05. With Fischer's test, if the test statistic is less than the critical value, the proportions are considered to be significantly different.

Standardized UXO Technology Demonstration Site examples, where blind grid results are compared to those from the open field and open field results are compared to those from one of the scenarios, follow. It should be noted that a significant result does not prove a cause and effect relationship exists between the two populations of interest; however, it does serve as a tool to indicate that one data set has experienced a degradation in system performance at a large enough level than can be accounted for merely by chance or random variation. Note also that a result that is not significant indicates that there is not enough evidence to declare that anything more than chance or random variation within the same population is at work between the two data sets being compared.

Demonstrator X achieves the following overall results after surveying each of the three progressively more difficult areas using the same system (results indicate the number of ordnance detected divided by the number of ordnance emplaced):

Blind Grid	Open Field	Moguls
$P_d^{\text{res}} 100/100 = 1.0$	8/10 = .80	20/33 = .61
$P_d^{disc} 80/100 = 0.80$	6/10 = .60	8/33 = .24

P<sub>d</sub> res: BLIND GRID versus OPEN FIELD. Using the example data above to compare probabilities of detection in the response stage, all 100 ordnance out of 100 emplaced ordnance items were detected in the blind grid while 8 ordnance out of 10 emplaced were detected in the open field. Fischer's test must be used since a 100 percent success rate occurs in the data. Fischer's test uses the four input values to calculate a test statistic of 0.0075 that is compared against the critical value of 0.05. Since the test statistic is less than the critical value, the smaller response stage detection rate (0.80) is considered to be significantly less at the 0.05 level of significance. While a significant result does not prove a cause and effect relationship exists between the change in survey area and degradation in performance, it does indicate that the detection ability of demonstrator X's system seems to have been degraded in the open field relative to results from the blind grid using the same system.

- P<sub>d</sub><sup>disc</sup>: BLIND GRID versus OPEN FIELD. Using the example data above to compare probabilities of detection in the discrimination stage, 80 out of 100 emplaced ordnance items were correctly discriminated as ordnance in blind grid testing while 6 ordnance out of 10 emplaced were correctly discriminated as such in open field-testing. Those four values are used to calculate a test statistic of 1.12. Since the test statistic is less than the critical value of 2.71, the two discrimination stage detection rates are considered to be not significantly different at the 0.05 level of significance.
- P<sub>d</sub><sup>res</sup>: OPEN FIELD versus MOGULS. Using the example data above to compare probabilities of detection in the response stage, 8 out of 10 and 20 out of 33 are used to calculate a test statistic of 0.56. Since the test statistic is less than the critical value of 2.71, the two response stage detection rates are considered to be not significantly different at the 0.05 level of significance.
- P<sub>d</sub><sup>disc</sup>: OPEN FIELD versus MOGULS. Using the example data above to compare probabilities of detection in the discrimination stage, 6 out of 10 and 8 out of 33 are used to calculate a test statistic of 2.98. Since the test statistic is greater than the critical value of 2.71, the smaller discrimination stage detection rate is considered to be significantly less at the 0.05 level of significance. While a significant result does not prove a cause and effect relationship exists between the change in survey area and degradation in performance, it does indicate that the ability of demonstrator X to correctly discriminate seems to have been degraded by the mogul terrain relative to results from the flat open field using the same system.

# APPENDIX B. DAILY WEATHER LOGS

TABLE B-1. WEATHER LOG

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/14/2004 00:00:00	67.2	67.6	66.6	77.77	0
06/14/2004 01:00:00	66.9	67.2	66.5	80.6	0
06/14/2004 02:00:00	66.9	67.4	66.5	81.8	0
06/14/2004 03:00:00	67.1	67.5	66.8	83.2	0
06/14/2004 04:00:00	66.4	67.1	65.9	88.5	. 0
06/14/2004 05:00:00	66.3	66.9	65.8	93.7	0
06/14/2004 06:00:00	69.4	72.4	66.2	93.8	0
06/14/2004 07:00:00	72.8	73.7	71.9	87.3	0
06/14/2004 08:00:00	73.2	73.7	72.9	86.3	0
06/14/2004 09:00:00	73.9	74.9	73.1	85.8	0
06/14/2004 10:00:00	75.8	77.4	74	82.2	0
06/14/2004 11:00:00	77.4	78.2	76.8	78.82	0
06/14/2004 12:00:00	78.6	79.5	77.1	77.58	0
06/14/2004 13:00:00	80.1	81.7	78.4	75.74	0
06/14/2004 14:00:00	82.4	83.6	80.5	72.69	0
06/14/2004 15:00:00	83.9	85.2	83	70.52	0
06/14/2004 16:00:00	84	85.2	83.2	70.64	0
06/14/2004 17:00:00	83.3	85.2	81.5	72.5	0
06/14/2004 18:00:00	81	82	80.1	76.21	0
06/14/2004 19:00:00	80	80.7	79.4	78.29	0
06/14/2004 20:00:00	73.2	79.9	69.8	92.2	1.85
06/14/2004 21:00:00	70.3	70.8	69.8	100	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/14/2004 22:00:00	70.9	71.7	70.2	100	0.17
06/14/2004 23:00:00	70.8	71.2	70.1	100	0
06/15/2004 00:00:00	71	71.7	70.2	100	0
06/15/2004 01:00:00	72	72.5	71.2	100	0
06/15/2004 02:00:00	72.3	72.7	71.5	100	0
06/15/2004 03:00:00	73.2	73.8	72.1	100	0
06/15/2004 04:00:00	73.1	73.7	72.6	100	0
06/15/2004 05:00:00	73.2	73.7	72.7	100	0
06/15/2004 06:00:00	73.9	74.8	73.1	99.4	0
06/15/2004 07:00:00	75.3	76.3	74.4	96.8	0
06/15/2004 08:00:00	76.6	77.3	75.8	93.7	0
06/15/2004 09:00:00	78.6	80.2	76.4	89.4	0
06/15/2004 10:00:00	79.9	80.7	78.9	86.6	0
06/15/2004 11:00:00	81.9	83.2	80.3	82.5	0
06/15/2004 12:00:00	84	85.1	82.9	78.82	0
06/15/2004 13:00:00	85.4	86.9	84.4	75.77	0
06/15/2004 14:00:00	87.2	88.1	86.1	70.49	0
06/15/2004 15:00:00	87.9	88.6	87.2	69.52	0
06/15/2004 16:00:00	87	87.7	86.3	72.75	0
06/15/2004 17:00:00	84.9	87.1	83.3	76.41	0
06/15/2004 18:00:00	83.6	85	82.5	78.85	0
06/15/2004 19:00:00	82.5	83	81.5	78	0
06/15/2004 20:00:00	80.9	82.1	79.7	81.9	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/15/2004	79	80.3	78.1	88.4	0
21:00:00		00.5	70.1	00.1	, and the second
06/15/2004 22:00:00	77.8	78.6	77.4	91.5	0
06/15/2004 23:00:00	76.8	78	75.8	91.8	0
06/16/2004 00:00:00	75.1	76.3	73.7	95.9	0
06/16/2004 01:00:00	74.4	75.6	73.3	96.8	0
06/16/2004 02:00:00	73.7	74.4	72.8	98.3	0
06/16/2004 03:00:00	73.9	75.1	72.9	96.1	0
06/16/2004 04:00:00	73.1	73.7	72.7	98	0
06/16/2004 05:00:00	72.7	73.2	72	97	0
06/16/2004 06:00:00	73.1	75	72.1	97.7	0
06/16/2004 07:00:00	76.1	77.1	74.7	92.2	0
06/16/2004 08:00:00	77	77.5	76.6	92.1	0
06/16/2004 09:00:00	77.8	78.5	77.1	91.8	0
06/16/2004 10:00:00	78.2	78.7	77.8	91	0
06/16/2004 11:00:00	79.4	80.6	78	87.9	0
06/16/2004 12:00:00	80.7	82	80.1	84.2	0
06/16/2004 13:00:00	82.7	83.4	81.5	78.53	0
06/16/2004 14:00:00	82.6	83.2	82	78.06	0
06/16/2004 15:00:00	83.9	85.2	82.6	74.85	0
06/16/2004 16:00:00	85.2	86.7	84	69.76	0
06/16/2004 17:00:00	84.2	85.1	83.2	73.41	0
06/16/2004 18:00:00	81.9	84.3	80.1	81.2	0
06/16/2004 19:00:00	79.4	80.6	77.7	88.2	0
06/16/2004 20:00:00	77.2	78.3	76.3	93.9	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/16/2004	75.9	76.8	75.1	96.6	0
21:00:00	73.9	70.8	75.1	90.0	0
06/16/2004	74.8	75.5	73.9	98.3	0
22:00:00	7	7010		70.5	
06/16/2004	74.7	75.4	73.9	99.6	0
23:00:00 06/17/2004					
00:00:00	75.3	75.8	74.8	99.6	0
06/17/2004				00.7	
01:00:00	75.5	76	75	99.5	0
06/17/2004	<sup>`</sup> 75.7	76.2	75.2	99.6	0
02:00:00	13.1	70.2	13.2	99.0	V
06/17/2004	75.9	76.3	75.6	99.8	0
03:00:00	7 - 7				
06/17/2004	75.9	76.3	75.6	100	0
04:00:00 06/17/2004					
05:00:00	76.1	76.6	75.8	100	0
06/17/2004	5.5	55.0	56.1	100	
06:00:00	76.5	77.3	76.1	100	0
06/17/2004	77.7	78.6	76.8	97.9	0
07:00:00	77.7	76.0	70.0	91.9	
06/17/2004	79.3	79.8	78.2	91.4	0
08:00:00 06/17/2004					
09:00:00	80.6	81.9	79.5	86.9	0
06/17/2004	82.6	83.8	81.3	81.8	0
10:00:00	02.0	03.0	01.5	01.0	0
06/17/2004	83.9	85.1	83	78.97	0
11:00:00					
06/17/2004 12:00:00	85.6	86.8	84.1	76.97	0
06/17/2004					
13:00:00	86.5	88	84.7	76.58	0
06/17/2004	87.4	88.7	85.9	73.27	0
14:00:00	07.4	88.7	65.9	13.21	<u> </u>
06/17/2004	85	88.3	82.2	79.42	0.01
15:00:00 06/17/2004					
16:00:00	79.4	83.6	75.1	92.4	0.1
06/17/2004		01.0	<b>7</b> 0 <i>t</i>	02 -	
17:00:00	80.6	81.9	78.4	92.7	0
06/17/2004	78.9	79.5	78.3	88.9	0
18:00:00	70.9	17.3	10.3	00.9	· · · · · · · · · · · · · · · · · · ·
06/17/2004	76.8	79.1	75.5	90.4	0
19:00:00			· · · · · · · · · · · · · · · · · · ·		
06/17/2004 20:00:00	75.5	76.2	75	93.5	0
20.00.00					

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/17/2004 21:00:00	75.1	76	74.5	97.9	0.07
06/17/2004 22:00:00	74.5	75.1	74	99.1	0
06/17/2004 23:00:00	74.4	74.9	73.7	99.4	0
06/18/2004 00:00:00	73.6	74	73	99.8	0
06/18/2004 01:00:00	73	73.7	72.1	100	0
06/18/2004 02:00:00	73.9	75.1	72.6	99.9	0
06/18/2004 03:00:00	74.9	75.3	74.4	99.5	0
06/18/2004 04:00:00	74.2	74.9	73.2	99.9	0
06/18/2004 05:00:00	73.4	73.9	72.7	100	0
06/18/2004 06:00:00	74.2	75.6	73.2	98.9	0
06/18/2004 07:00:00	75.9	76.3	75.1	94.3	0
06/18/2004 08:00:00	76.7	77.7	75.5	92.5	0
06/18/2004 09:00:00	80.5	83	77.5	82.3	0
06/18/2004 10:00:00	83.1	84.8	82.1	73.33	0
06/18/2004 11:00:00	85.2	86.3	84.2	68.18	0
06/18/2004 12:00:00	87.3	88.7	85.5	64.59	0
06/18/2004 13:00:00	88.2	89.3	87	61.76	0
06/18/2004 14:00:00	89.5	90.7	87.5	59.42	0
06/18/2004 15:00:00	89	90.7	87.6	65.78	0
06/18/2004 16:00:00	88.8	89.5	88.2	65.74	0
06/18/2004 17:00:00	87.7	89.2	86.3	67.75	0
06/18/2004 18:00:00	86.4	88.1	84.5	72.47	0
06/18/2004 19:00:00	83.9	85	82.7	77.62	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/18/2004					
20:00:00	80.7	83	79.5	91.1	0
06/18/2004	<b></b>			07.5	
21:00:00	78.6	79.7	77.2	95.2	0
06/18/2004	760	22.2	75.0	00.5	
22:00:00	76.9	77.7	75.9	98.5	0
06/18/2004	76.6	77.3	75.7	99	0
23:00:00	70.0	11.5	13.1	99	V
06/19/2004	74.9	76	74.2	99.6	0
00:00:00	,,	, , ,	,	77.0	· · · · · · · · · · · · · · · · · · ·
06/19/2004	. 74.9	75.5	74.2	99.8	0
01:00:00					
06/19/2004	74.9	75.6	74.3	89.3	0
02:00:00 06/19/2004					
03:00:00	74.9	76.1	73.7	82.9	0
06/19/2004					
04:00:00	75	75.8	74	76.03	0
06/19/2004		= 4.0			
05:00:00	73.9	74.9	72.7	75.79	0
06/19/2004	73.1	73.7	72.7	77.58	0
06:00:00	/3.1	13.1	12.1	11.38	<u> </u>
06/19/2004	74	74.9	73.2	74.54	0
07:00:00			, , , , ,		
06/19/2004	75.4	76.3	74.5	70.92	0
08:00:00 06/19/2004					
09:00:00	77	78.2	76	64.99	0
06/19/2004					_
10:00:00	78.1	78.9	77.2	57.07	0
06/19/2004	90	01.0	70 1	50.11	0
11:00:00	80	81.2	78.1	50.11	0
06/19/2004	80.9	82	79.9	48.06	0
12:00:00	00.5	02	17.7	70.00	U
06/19/2004	81.9	82.9	80.1	49.74	0
13:00:00	'-				-
06/19/2004	81.9	83.1	81	51.08	0
14:00:00 06/19/2004					
15:00:00	80.1	82.5	78.5	57.58	0
06/19/2004			<b>50</b> 1		
16:00:00	79.4	80.5	78.4	61.63	0
06/19/2004	01 1	92	70.6	57.10	0
17:00:00	81.1	82	79.6	57.19	U
06/19/2004	80.7	81.7	79.5	54.59	0
18:00:00	00.7	01.7	17.5	57.57	· ·
06/19/2004	78.9	80	77.6	59.91	0
19:00:00					

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/19/2004					
20:00:00	76	77.7	74.3	64.53	0
06/19/2004	72 1	74.0	71.5	50.41	0
21:00:00	73.1	74.9	71.5	59.41	0
06/19/2004	71.7	70.5	71	50.02	0
22:00:00	71.7	72.5	71	52.03	0
06/19/2004	<i>(</i> 0.0	71.7	60.2	£1.62	0
23:00:00	69.8	71.7	68.3	51.63	0
06/20/2004	67.3	69	65.5	50.29	0
00:00:00	07.3	09	05.5	30.29	U
06/20/2004	65.3	66.3	63.8	51.44	0
01:00:00	. 05.5	00.3	03.8	J1. <del>44</del>	U
06/20/2004	63.6	64.8	62.4	54.52	0
02:00:00	03.0	0.40	U2. <del>4</del>	27.34	, ,
06/20/2004	62	62.8	60.9	57.6	0
03:00:00	02	02.0	00.2	37.0	U
06/20/2004	59.8	61.3	58.3	62.44	0
04:00:00	57.0	01.5	30.3	02.11	<u> </u>
06/20/2004	56.5	58.5	54.5	72.25	0
05:00:00	50.5	50.5	51.5	, Z.E5	V
06/20/2004	56.8	59	55.7	77.01	0
06:00:00	50.0	5)	33.7	77.01	V
06/20/2004	60.3	62.4	58.6	66.05	0
07:00:00					
06/20/2004	62.7	64.2	61.3	59.57	0
08:00:00					
06/20/2004	64.2	65.5	63.1	56.01	0
09:00:00					
06/20/2004	65.9	67.6	64.4	53.45	0
10:00:00					
06/20/2004 11:00:00	67.7	69	66.5	49.93	0
06/20/2004					
12:00:00	68.9	70	67.8	45.85	0
06/20/2004					
13:00:00	70.6	71.7	69.6	45.35	0
06/20/2004					
14:00:00	71.9	73.1	71.1	42.42	0
06/20/2004					
15:00:00	73.3	74.4	71.8	41.09	0
06/20/2004					_
16:00:00	73.5	75	72.2	45.98	0
06/20/2004					-
17:00:00	72.7	73.3	72	50.78	0
06/20/2004		<b>5</b> 0 :			
18:00:00	72.7	73.4	71.9	51.08	0
06/20/2004	71.1	50.1	<b>20.4</b>	50.45	^
19:00:00	71.1	72.1	69.4	53.47	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/20/2004			T		
20:00:00	67.4	70	64.1	63.07	0
06/20/2004			40.4		_
21:00:00	63.1	64.5	60.6	76.34	0
06/20/2004					
22:00:00	59.7	61.2	59	88.9	0
06/20/2004					
23:00:00	58.5	59.4	57.3	92.3	0
06/21/2004	57	57.0	56.0	06.2	0
00:00:00	57	57.9	56.2	96.3	0
06/21/2004	. 56	56.8	54.6	98.2	0
01:00:00	, 56	30.0	J4.0 	90.2	· · · · · · · · · · · · · · · · · · ·
06/21/2004	55	56	53.9	99.4	0
02:00:00	JJ	50	33.7	JJ. <del>T</del>	
06/21/2004	54	54.6	53.4	100	0
03:00:00	٠.	31.0	33.1	100	
06/21/2004	54.1	54.7	53.5	100	0
04:00:00	J 1.1	J	00.5	200	
06/21/2004	54.1	54.8	53.3	100	0
05:00:00		•			
06/21/2004	56.2	59	53.5	99.5	0
06:00:00					
06/21/2004	62.8	65.7	58.6	87.9	0
07:00:00					
06/21/2004	68.7	70.8	65.2	70.21	0
08:00:00 06/21/2004					
09:00:00	71.5	72.9	70	72.26	0
06/21/2004					
10:00:00	73.2	74.9	71.2	61.88	0
06/21/2004					
11:00:00	74.6	76.3	73.8	54.52	0
06/21/2004		565	740	40.0	^
12:00:00	75.5	76.7	74.2	49.3	0
06/21/2004	77.1	78.1	76.2	44.27	0
13:00:00	77.1	/0.1	70.2	44.27	0
06/21/2004	77.9	79.1	76.9	47.03	0
14:00:00	11.3	75.1	10.9	47.03	U
06/21/2004	78	78.9	77.2	53.29	0
15:00:00	, , ,	70.5	11.2	33.27	
06/21/2004	78.3	78.9	77.5	55.27	0
16:00:00		,			
06/21/2004	77.9	78.8	77.3	56.98	0
17:00:00	-	-			
06/21/2004	77.2	77.9	76.3	61.32	0
18:00:00					
06/21/2004	75.7	76.5	74.6	64.78	0
19:00:00	<u> </u>	<u>i</u>			

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
06/21/2004 20:00:00	73.6	75	72.7	69.06	0
06/21/2004	72.5	72.0	73	69.27	0
21:00:00	73.5	73.9	13	68.37	0
06/21/2004 22:00:00	73.4	74.5	72.6	71.87	0
06/21/2004 23:00:00	73.2	74.3	71.5	75.78	0
06/22/2004 00:00:00	70.7	71.9	69.6	81.9	0
06/22/2004 01:00:00	68.9	70	68.2	87.6	0
06/22/2004 02:00:00	68.9	69.4	68.2	88.2	0
06/22/2004 03:00:00	69	73.1	67.6	87.5	0
06/22/2004 04:00:00	73.7	74.2	73	75.15	0
06/22/2004 05:00:00	73.6	74	73	74.95	0
06/22/2004 06:00:00	73.3	74	72.9	74.67	0
06/22/2004 07:00:00	74.7	75.6	73.7	71.38	0
06/22/2004 08:00:00	76	77.3	75	67.23	0
06/22/2004 09:00:00	76.4	77.3	75.6	68.5	0
06/22/2004 10:00:00	77.6	79.2	76.1	68.89	0
06/22/2004 11:00:00	78.9	80.3	77.5	69.4	0
06/22/2004 12:00:00	80.2	81.8	79.4	69.91	0
06/22/2004 13:00:00	81.1	82.7	80	68.25	0
06/22/2004 14:00:00	83	83.8	82.1	66.24	0
06/22/2004 15:00:00	84.1	86.1	82.7	65.96	0
06/22/2004 16:00:00	83.4	84.9	82.5	68.75	0
06/22/2004 17:00:00	82.2	82.9	80.5	73.26	0
06/22/2004 18:00:00	78.5	81.1	72.4	75.28	0.1
06/22/2004 19:00:00	71.8	72.6	70.6	95.4	0.14

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/22/2004					
20:00:00	70.8	71.9	69.9	98.2	0
06/22/2004	<b>60.0</b>	<b>70.4</b>	(0.2	00.0	0
21:00:00	69.8	70.4	69.3	99.9	U
06/22/2004	69.8	70.5	69	100	0
22:00:00	09.8	70.3	09	100	U
06/22/2004	69.9	71	68.8	100	0
23:00:00	07.7	/1	00.0	100	V
06/23/2004	70.2	71.3	69.4	100	0
00:00:00		, , , ,		- • •	
06/23/2004	· 70.8	71.9	69.6	100	0
01:00:00					
06/23/2004	71	71.5	70.2	100	0
02:00:00					
06/23/2004	71.3	71.8	70.8	100	0
03:00:00					
06/23/2004 04:00:00	71.5	71.8	71	97.5	0
06/23/2004					
05:00:00	70.8	71.3	70.2	96	0
06/23/2004					
06:00:00	70.5	71.3	70	95.2	0
06/23/2004		70	70.0	00.1	0.01
07:00:00	71.7	73	70.8	89.1	0.01
06/23/2004	72.9	73.7	72.1	79.54	0
08:00:00	12.9	13.1	12.1	13.34	
06/23/2004	72.5	73.5	71.9	76.87	0
09:00:00	72.5	75.5	7	70.07	· ·
06/23/2004	74.9	76.9	73.1	65.72	0
10:00:00					
06/23/2004	76.2	76.8	75.6	60.85	0
11:00:00					
06/23/2004 12:00:00	76.7	78.2	75.7	60.51	0
06/23/2004					
13:00:00	77.4	78.3	76.5	58.85	0
06/23/2004					
14:00:00	77.9	78.7	77.2	59.2	0
06/23/2004	760	77. ^	75.0	(1.00	
15:00:00	76.9	77.8	75.9	61.33	0
06/23/2004	76.0	70 1	76.0	62.38	
16:00:00	76.9	78.4	76.2	02.38	0
06/23/2004	77.7	78.4	76.8	57.65	0
17:00:00	11.1	70.4	70.0	51.05	
06/23/2004	77.6	78.2	76.5	60	0
18:00:00	77.0	, , , , ,	, 0.0		
06/23/2004	75.8	76.9	74.4	71.75	0
19:00:00					-

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/23/2004					
20:00:00	72.8	74.6	70.7	82.8	0
06/23/2004	(0.5	70.0	(7.5	01.0	
21:00:00	69.5	70.9	67.5	91.9	0
06/23/2004	(( )	(7.7	65.0	07.5	_
22:00:00	66.9	67.7	65.8	97.7	0
06/23/2004	66.4	67	<i>(F</i> 0	00.2	_
23:00:00	00.4	0/	65.8	99.2	0
06/24/2004	65.8	66.3	65.4	99.9	0
00:00:00	05.0	00.3	03.4	99.9	U
06/24/2004	64.9	65.6	64.2	100	0
01:00:00	04.9	05.0	04.2	100	0
06/24/2004	64	65.1	62.7	100	0
02:00:00	VT	05.1	02.7	100	U
06/24/2004	62.9	63.7	62.4	100	0
03:00:00	02.7	05.7	02.4	100	U
06/24/2004	62.3	62.8	61.6	100	0
04:00:00	02.3	02.0	01.0	100	U
06/24/2004	61.5	62.4	60.7	100	0
05:00:00	01.5	02.4	00.7	100	V
06/24/2004	62.3	63.8	60.8	100	0
06:00:00	02.3	05.0		100	
06/24/2004	67.1	70.5	63.4	99.9	0
07:00:00	V	70.5		77.7	V
06/24/2004	72.4	73.8	70.4	89.8	0
08:00:00				0,10	
06/24/2004	75.7	77.4	73.6	81	0.02
09:00:00					
06/24/2004 10:00:00	78.6	80	77.3	75.18	0
06/24/2004					
11:00:00	80.3	81.4	79	68.22	0
06/24/2004					
12:00:00	81.4	82.4	80.3	62.91	0
06/24/2004					
13:00:00	83.1	83.9	81.8	54.11	0
06/24/2004					
14:00:00	84.3	85	83.3	50.54	0
06/24/2004					
15:00:00	84.7	85.2	84.1	46.56	0
06/24/2004	0.4 :				
16:00:00	84.4	85.2	83.7	49.49	0
06/24/2004	00.5	04.1	00.1		
17:00:00	83.6	84.1	83.1	51.02	0
06/24/2004	00.0	00.0	0.1.1		
18:00:00	82.2	83.3	81.4	54.35	0
06/24/2004	90.2	01.6	70.7		
19:00:00	80.2	81.6	78.5	60.7	0

Date &	Average	Maximum	Minimum	Relative	Total Precipitation (in)
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (III)
06/24/2004 20:00:00	77.5	79.1	75.2	67.35	0
06/24/2004 21:00:00	73.6	76.2	72.1	79.11	0
06/24/2004 22:00:00	72.8	73.9	71.3	82.4	0
06/24/2004	70.8	71.7	69.8	88.7	0
23:00:00 06/25/2004	70.3	71.8	69.4	89.8	
00:00:00 06/25/2004	69	69.9	68.3	93.5	
01:00:00					
02:00:00	68.4	69.1	67.7	95.5	
06/25/2004 03:00:00	67.8	68.3	67.3	98.3	
06/25/2004 04:00:00	67.7	68.6	67	99.3	
06/25/2004 05:00:00	68	68.5	67.3	99.4	
06/25/2004 06:00:00	68.6	70.8	67.4	100	
06/25/2004 07:00:00	73	75.1	70.5	94	
06/25/2004 08:00:00	77.1	77.8	74.8	84.1	
06/25/2004 09:00:00	77.9	78.9	77	82.3	
06/25/2004 10:00:00	78.6	<b>7</b> 9.7	77.6	83.2	
06/25/2004 11:00:00	80.8	81.8	79.5	78.08	
06/25/2004 12:00:00	80.8	82.4	79.9	81.1	
06/25/2004	82.9	84.3	81.5	76.88	
06/25/2004 14:00:00	83.1	83.8	82.5	76.67	
06/25/2004	84	85	83.1	70.26	
06/25/2004 16:00:00	83.4	84.3	82.5	72.37	
06/25/2004 17:00:00	77.7	82.8	72.1	78.4	
06/25/2004 18:00:00	70	72.3	69	94.3	
06/25/2004 19:00:00	69.8	70.8	69	97.5	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/25/2004 20:00:00	70.6	71.1	70.3	96.4	0
06/25/2004 21:00:00	70	70.8	69.4	98.1	0
06/25/2004 22:00:00	69.9	70.4	69.4	99.5	0
06/25/2004 23:00:00	69.6	70.2	69	99.3	0
06/26/2004 00:00:00	69.5	70	69	100	0
06/26/2004 01:00:00	69.2	69.6	68.9	100	0
06/26/2004 02:00:00	69.3	69.6	68.8	100	0
06/26/2004 03:00:00	69.2	69.8	68.7	100	0
06/26/2004 04:00:00	68.7	69.4	68	100	0
06/26/2004 05:00:00	68.2	68.6	67.7	100	0
06/26/2004 06:00:00	68.8	69.4	68.2	100	0
06/26/2004 07:00:00	69.7	71.1	69	100	0.01
06/26/2004 08:00:00	72.5	73.3	70.7	95.5	0
06/26/2004 09:00:00	74	75.2	72.7	86.3	0
06/26/2004 10:00:00	75.6	76.9	74.4	79.59	0
06/26/2004 11:00:00	77	78.1	76.2	75.19	0
06/26/2004 12:00:00	78	78.7	77.3	69.48	0
06/26/2004 13:00:00	78.6	79.5	77.6	67.09	0
06/26/2004 14:00:00	80	82.3	77.7	63.7	0
06/26/2004 15:00:00	80.3	82.7	78.8	57.93	0
06/26/2004 16:00:00	81.1	82	80	45.06	0
06/26/2004 17:00:00	80.3	81.2	79.4	39.62	0
06/26/2004 18:00:00	78.7	80	77.6	38.02	0
06/26/2004 19:00:00	76.6	78.1	74.9	40.65	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
06/26/2004 20:00:00	73.1	75.1	71.2	46.97	0
06/26/2004 21:00:00	68.3	71.5	65.1	60.11	0
06/26/2004	65.2	66.3	64.3	68.34	0
22:00:00 06/26/2004	63.7	65.2	62.7	71.14	0
23:00:00 06/27/2004	63.4	64.9	60.6	69.32	0
00:00:00 06/27/2004			00.0	09.32	U U
01:00:00	61.5	63.2	59.5	74.63	0
06/27/2004 02:00:00	58.9	60.9	56.9	81.2	0
06/27/2004 03:00:00	56.2	57.7	54.8	92.1	0
06/27/2004 04:00:00	54.8	55.7	53.8	95.6	0
06/27/2004 05:00:00	53.7	54.6	53.2	98.4	0
06/27/2004 06:00:00	54.9	57	53.4	96.2	0
06/27/2004 07:00:00	61.7	65.9	56.8	83.3	0
06/27/2004 08:00:00	68	70.6	65.5	64.91	0
06/27/2004 09:00:00	71.9	73.5	70.1	49.27	0
06/27/2004 10:00:00	73.9	75.3	72.9	45.04	0
06/27/2004 11:00:00	75.8	77	74.5	45.89	0
06/27/2004 12:00:00	76.6	77.6	75.3	46.85	0
06/27/2004 13:00:00	78	79.3	76.3	48.53	0
06/27/2004 14:00:00	79.6	81.1	78	39.6	0
06/27/2004 15:00:00	80.5	81.7	79.4	37.7	0
06/27/2004 16:00:00	80.5	82.5	78.2	39.48	0
06/27/2004 17:00:00	79.1	80.5	78.1	39.21	0
06/27/2004 18:00:00	79.3	80.8	77.7	38.93	0
06/27/2004 19:00:00	77.8	79.2	76.2	43.44	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
06/27/2004 20:00:00	73.9	76.3	70.6	55.21	0
06/27/2004 21:00:00	67.6	71.2	65	73.97	0
06/27/2004 22:00:00	64.9	65.4	64.1	82.3	0
06/27/2004 23:00:00	62.8	64.8	61.6	89.7	0
06/28/2004 00:00:00	61.4	62.5	60.6	94.4	0
06/28/2004 01:00:00	60.6	61.2	59.9	96.7	0
06/28/2004 02:00:00	59.5	60.2	58.7	97.4	0
06/28/2004 03:00:00	58.7	59.6	57.7	98.9	0
06/28/2004 04:00:00	58.1	58.7	56.9	99.6	0
06/28/2004 05:00:00	56.9	57.6	56.3	100	0
06/28/2004 06:00:00	60.3	62.9	57.1	93.8	0
06/28/2004 07:00:00	67.5	72.9	62.5	83	0
06/28/2004 08:00:00	73.8	76.1	71.8	68.08	0
06/28/2004 09:00:00	77.1	80.7	75.1	57.26	0
06/28/2004 10:00:00	79.4	80.3	78.3	50.14	0
06/28/2004 11:00:00	79.1	80	78.4	49.64	0
06/28/2004 12:00:00	80.1	81.5	78.8	46.01	0
06/28/2004 13:00:00	80.3	81.5	79.5	45.88	0
06/28/2004 14:00:00	81.3	82.6	80	43.27	0
06/28/2004 15:00:00	82.1	83	80.9	43.71	0
06/28/2004 16:00:00	82.3	83.1	81.6	44.52	0
06/28/2004 17:00:00	81.6	82.7	79.7	42.77	0
06/28/2004 18:00:00	80.3	81.3	78.8	45.12	0
06/28/2004 19:00:00	78.9	80.5	77.6	53.84	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
06/28/2004					
20:00:00	76.2	77.9	74.3	63.59	0
06/28/2004				50.05	
21:00:00	73.4	74.8	71.3	73.87	0
06/28/2004	70	71.0	67.8	82.4	0
22:00:00	70	71.9	07.8	02.4	U
06/28/2004	67.6	68.6	66.7	89.3	0
23:00:00	07.0	00.0	00.7	05.5	
06/29/2004	67.8	69.3	67	90.2	0.01
00:00:00	<b></b>				
06/29/2004	,66.1	67.9	65.2	96.8	0.02
01:00:00 06/29/2004					
02:00:00	65.1	65.8	64.5	97	0
06/29/2004					
03:00:00	63.9	65	63	95.5	0
06/29/2004	(0.1	(2.2	(1.2	06.1	0
04:00:00	62.1	63.2	61.3	96.1	0
06/29/2004	61	61.5	60.4	95.6	0
05:00:00	O1	01.5	00.4	95.0	V
06/29/2004	61.5	62.8	60.6	91.5	0
06:00:00	· · · · · · · · · · · · · · · · · · ·				
06/29/2004 07:00:00	63.8	64.9	62.5	84.8	0
06/29/2004 08:00:00	65.7	66.5	64.6	79.5	· 0
06/29/2004					•
09:00:00	67.7	69.2	66.2	74.82	0
06/29/2004	69.4	70.8	67.9	70.32	0
10:00:00	03.4	70.6	01.9	70.52	· · · · · · · · · · · · · · · · · · ·
06/29/2004	71.9	73.6	70.3	64.49	0
11:00:00					
06/29/2004 12:00:00	73.6	75.5	72.4	59.88	0
06/29/2004					_
13:00:00	75.3	76.9	74.2	55.3	0
06/29/2004	76.5	77.0	74.0	51.07	0
14:00:00	76.5	77.8	74.9	51.87	U
06/29/2004	77.2	78.8	75.7	49.11	0
15:00:00	11.2	70.0	12.1	77.11	· · · · · · · · · · · · · · · · · · ·
06/29/2004	78	79.5	76.9	46.67	0
16:00:00					
06/29/2004 17:00:00	78	79.4	76.6	46.98	0
06/29/2004					
18:00:00	78	79.1	76.6	45.85	0
10.00.00			<u> </u>	L	

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
0610010001					
06/29/2004	76.9	78.2	74.6	46.35	0
19:00:00					
06/29/2004	71.2	75.1	68.2	61.99	0
20:00:00					
06/29/2004	65.8	68.4	63.5	79.42	0
21:00:00					
06/29/2004 22:00:00	63.3	64.4	62	87.5	0
06/29/2004					
23:00:00	61.3	62.2	60.8	93.6	0
06/30/2004	1				
00:00:00	60.4	61.2	59.6	95.7	0
06/30/2004					
01:00:00	58.9	60	57.7	97.6	0
06/30/2004					
02:00:00	58.3	59.5	57.3	97.5	0
06/30/2004					_
03:00:00	57.7	58.4	56.6	98.8	0
06/30/2004					_
04:00:00	57.8	58.4	57.1	99.3	0
06/30/2004		50.4	<b>*</b> * * * * * * * * * * * * * * * * * *	00.4	
05:00:00	57.4	58.4	56.8	99.6	0
06/30/2004	~ · ·	(0.0	57.4	00.0	0
06:00:00	58.5	60.9	57.4	98.8	0
06/30/2004	64.9	67.6	60.7	88.4	0
07:00:00	04.9	07.0	00.7	00.4	U
06/30/2004	70.5	74.1	67.4	72.77	0
08:00:00	70.5	/4.1	07.4	12.11	· · · · · · · · · · · · · · · · · · ·
06/30/2004	75.3	77.3	73.1	61.62	0
09:00:00	75.5	77.5		01.02	
06/30/2004	78.9	80.1	77.1	53.13	0
10:00:00				00120	
06/30/2004	80.8	82	79.6	48.2	0
11:00:00	-				
06/30/2004	81.6	82.5	80.3	47.46	0
12:00:00 06/30/2004					
13:00:00	82.4	83.6	81.6	47.31	0
06/30/2004					
14:00:00	82.6	83.1	81.8	48.13	0
06/30/2004				,	
15:00:00	83.1	83.9	82	47.64	0
06/30/2004	25				
16:00:00	83	83.7	82.5	46.45	0
06/30/2004	00.5	00.1	00	47.04	
17:00:00	82.5	83.1	82	47.04	0
06/30/2004	01.2	92.2	80	51.72	0
18:00:00	81.3	82.3	٥U	51.73	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
06/30/2004 19:00:00	79	80.3	77.2	63.29	0
06/30/2004 20:00:00	74.8	77.3	73.1	78.71	0
06/30/2004	72.9	73.9	72	89.1	0
21:00:00 06/30/2004	71.5	72.5	70.6	93.8	0
22:00:00 06/30/2004	70.4	71.5	69	97.3	0
23:00:00 07/01/2004					
00:00:00 07/01/2004	69.5	70.6	68.8	99.5	0
01:00:00	68.3	69.9	66.5	99.6	0
07/01/2004 02:00:00	67.3	68.9	65.6	100	0
07/01/2004 03:00:00	66.2	67.7	65.1	100	0
07/01/2004 04:00:00	66.3	68	64.9	100	0
07/01/2004 05:00:00	65.1	65.6	64.5	100	0
07/01/2004 06:00:00	66.7	68.2	64.8	100	0
07/01/2004 07:00:00	70.3	72.3	67.9	97.1	0
07/01/2004 08:00:00	73.2	74.4	72	92.3	0
07/01/2004 09:00:00	76.2	78.7	74	87.1	0
07/01/2004 10:00:00	79.4	80.2	78.4	77.68	0
07/01/2004 11:00:00	80.7	82	79.4	75.52	0
07/01/2004 12:00:00	82.3	84.3	80.9	71.53	0
07/01/2004 13:00:00	83.5	84.6	82.5	68.25	0
07/01/2004 14:00:00	83.3	84.7	81.9	70.27	0
07/01/2004 15:00:00	81.2	83	80.3	67.08	0
07/01/2004 16:00:00	79.8	81.8	78.4	78.23	0
07/01/2004 17:00:00	80.6	81.9	78.8	73.83	0
07/01/2004 18:00:00	78.8	79.6	78.2	72.48	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/01/2004 19:00:00	77.8	79.5	76.6	74.01	0
07/01/2004 20:00:00	75.8	77.1	73.4	80.6	0
07/01/2004 21:00:00	73.9	74.8	73.4	89.6	0
07/01/2004 22:00:00	72.7	73.7	71.7	93.2	0
07/01/2004	71.4	72	70.8	95.6	0
23:00:00	. 70.4	71.2	69.3	97.4	0
00:00:00	69	69.6	68.3	99.1	0
01:00:00	68.4	69.5	67.5	99.9	0
02:00:00	67.9	68.5	67.4	100	0
03:00:00 07/02/2004	67.8	68.6	67.3	100	0
04:00:00 07/02/2004	67.9	68.5	66.9	100	0
05:00:00 07/02/2004	68.8	71.1	67.1	100	0
06:00:00 07/02/2004	72.9	74.7	70.8	92.9	0
07:00:00 07/02/2004	76.6	79.3	74.4	81.4	0
08:00:00 07/02/2004	80.5	82.6	78.6	68.37	0
09:00:00 07/02/2004	83.7	85	82	56.3	0
10:00:00 07/02/2004	85.7	86.9	84.5	48.98	0
11:00:00 07/02/2004	86.8	87.9	86.1	38.44	0
12:00:00 07/02/2004	87.5	88.7	86.7	37.64	0
13:00:00 07/02/2004	88.3	89.3	87.2	34.62	0
14:00:00 07/02/2004	88.9	90.1	87.5	36.35	0
15:00:00 07/02/2004	87.8	88.3	87.1	41.41	0
16:00:00 07/02/2004	87.3	88.1	86.3	42.47	0
17:00:00 07/02/2004	86	87	84.5	45.22	0
18:00:00	ου 	0/	04.3	43.22	<b>U</b>

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/02/2004 19:00:00	83.8	84.9	81.9	52.23	0
07/02/2004 20:00:00	77.7	82.1	75.1	65.32	0
07/02/2004 21:00:00	74.1	76.6	72.2	72.79	0
07/02/2004 22:00:00	70.9	72.8	69.3	84	0
07/02/2004 23:00:00	70	71	69.3	87.2	0
07/03/2004 00:00:00	68.7	70.6	67.6	90.6	0
07/03/2004 01:00:00	67.7	68.6	66.9	94.4	0
07/03/2004 02:00:00	68.7	71	66.9	90.5	0
07/03/2004 03:00:00	71.1	73.3	68.2	81.1	0
07/03/2004 04:00:00	72.4	73	71.6	69.53	0
07/03/2004 05:00:00	71.8	73	70.7	65.62	0
07/03/2004 06:00:00	71	71.4	70.6	65.79	0
07/03/2004 07:00:00	71.6	72.4	70.8	64.24	0
07/03/2004 08:00:00	73.6	75.1	72.2	62.16	0
07/03/2004 09:00:00	75.8	76.9	74.7	58.5	0
07/03/2004 10:00:00	76.5	78	75.3	58.29	0
07/03/2004 11:00:00	78.6	80.1	77.3	56.37	0
07/03/2004 12:00:00	80.6	81.8	79.4	53.06	0
07/03/2004 13:00:00	82.2	83.2	81.3	49.88	0
07/03/2004 14:00:00	83.8	84.6	82.7	45.92	0
07/03/2004 15:00:00	84.6	85.2	83.9	43.99	0
07/03/2004 16:00:00	85.2	86.4	84.5	44.28	0
07/03/2004 17:00:00	84.8	85.6	84.1	49.75	0
07/03/2004 18:00:00	84.2	84.7	83.4	52.94	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/03/2004 19:00:00	82.2	83.8	79.5	61.31	0
07/03/2004 20:00:00	78.4	79.9	77.2	70.72	0
07/03/2004 21:00:00	76.6	78.1	74.9	68.45	0
07/03/2004 22:00:00	73.7	75	71.9	74.19	0
07/03/2004 23:00:00	71.2	72.4	70.6	82.4	0
07/04/2004 00:00:00	, 70.1	71.2	68.6	87	0
07/04/2004 01:00:00	68.7	69.9	67	93.4	0
07/04/2004 02:00:00	67.8	68.7	66.9	97.7	0
07/04/2004 03:00:00	67.9	68.8	66.9	99.3	0.02
07/04/2004 04:00:00	68.5	69.4	67.6	98.8	0
07/04/2004 05:00:00	69.9	70.6	69.1	98.6	0
07/04/2004 06:00:00	71.1	71.8	70.4	97.3	0
07/04/2004 07:00:00	71.4	72	71	97.5	0
07/04/2004 08:00:00	72.6	73.2	71.5	95.6	0
07/04/2004 09:00:00	73.1	73.9	72.5	94.2	0
07/04/2004 10:00:00	77	80	73.6	84.4	0
07/04/2004 11:00:00	80.2	81.2	79.3	78.13	0
07/04/2004 12:00:00	82.8	84.4	80.7	69.93	0
07/04/2004 13:00:00	83.9	84.9	82.7	66.69	0
07/04/2004 14:00:00	82.3	83.2	81.4	70.92	0
07/04/2004 15:00:00	80.9	82.5	77.8	74.8	0.01
07/04/2004 16:00:00	76.7	78.5	74.5	89.7	0.03
07/04/2004 17:00:00	75.5	76.6	74.3	96.4	0.06
07/04/2004 18:00:00	76	76.6	74.5	93.6	0.17

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/04/2004	74.6	75	74.2	98.7	0.18
19:00:00 07/04/2004					
20:00:00	74.6	75.1	74	97.5	0
07/04/2004 21:00:00	74.6	75	74	98.2	0
07/04/2004 22:00:00	75	75.5	74.5	98.1	0
07/04/2004 23:00:00	75.6	76.1	75	97.2	0
07/05/2004 00:00:00	· <b>7</b> 5.7	76.2	75.2	97	0.05
07/05/2004 01:00:00	75.5	75.8	75.1	98	0
07/05/2004 02:00:00	75.5	75.8	75	98.7	0
07/05/2004 03:00:00	75.3	75.6	74.9	99.8	0
07/05/2004 04:00:00	75.5	75.8	75	100	0.01
07/05/2004 05:00:00	75.2	75.7	74.9	100	0
07/05/2004 06:00:00	75.2	76.2	74.5	100	0
07/05/2004 07:00:00	76.8	. 77.9	75.7	98.4	0
07/05/2004 08:00:00	78.5	79.6	77.5	92.5	0
07/05/2004 09:00:00	80.5	81.7	79.5	87.9	0
07/05/2004 10:00:00	83.1	84.8	81.5	82.7	0
07/05/2004 11:00:00	85.6	86.7	84.3	75.92	0
07/05/2004 12:00:00	87.8	89.1	86.4	66.68	0
07/05/2004 13:00:00	89.6	90.8	88.3	58.16	0
07/05/2004 14:00:00	90.5	91.2	89.5	54.36	0
07/05/2004 15:00:00	90.8	91.7	89.4	53.36	0
07/05/2004 16:00:00	84.3	91	76.2	70.32	0.23
07/05/2004 17:00:00	81.5	84.1	79.2	83.6	0
07/05/2004 18:00:00	81	83.7	75.3	82.9	0.02

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)		Humidity (%)	Precipitation (in)
07/05/2004	75.1	76.3			
19:00:00	73.1	70.3	73.5	84.3	0
07/05/2004	72.9	73.9	72.2	91.6	0
20:00:00	12.9	13.9	12.2	91.0	U
07/05/2004	72.5	73.8	71.3	93.3	0
21:00:00	12.5	73.0	71.5	93.3	U
07/05/2004	71.5	72.1	70.8	97.1	0
22:00:00	71.5	72.1	70.0	97.1	U
07/05/2004	71.7	72.3	71.1	97.9	0
23:00:00	, ,	72.5	/1.1	71.5	V
07/06/2004	· 71.9	72.8	71.1	97.9	0
00:00:00		72.0	, 1.12		
07/06/2004	72	72.6	71	98	0
01:00:00					
07/06/2004	71.7	72.8	70.7	94.9	0
02:00:00					
07/06/2004	70.5	71.8	69.2	92.9	0
03:00:00 07/06/2004					
04:00:00	72.7	73.8	71.4	81.7	0
07/06/2004					
05:00:00	72.2	73.1	71.2	80.6	0
07/06/2004					
06:00:00	72.9	73.5	72	78.94	0
07/06/2004					_
07:00:00	74	74.9	73.1	76.58	0
07/06/2004	75.4	76.7	74.4	72.25	^
08:00:00	73.4	76.7	/4.4	73.35	0
07/06/2004	76.4	77.8	75.8	66.2	0
09:00:00	70.4	77.0	75.0	00.2	
07/06/2004	76.9	78	75.8	65.49	0
10:00:00			75.0	05.17	
07/06/2004	78.1	79.3	77.1	62.91	0
11:00:00			.,,		
07/06/2004	79.6	80.6	78.3	60.72	0
12:00:00					
07/06/2004	81.4	82.5	80	57.94	0
13:00:00 07/06/2004					
14:00:00	83.1	84.9	81.9	55.34	0
07/06/2004					
15:00:00	84.3	85.2	83.4	52.46	0
07/06/2004	0.5	0.5.4			_
16:00:00	85	85.6	84.5	50.13	0
07/06/2004	05.4	05.0	0.5	47.4	
17:00:00	85.4	85.9	85	47.1	0
07/06/2004	85.5	06 1	94.0	46.50	
18:00:00	د.ده	86.1	84.9	46.52	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/06/2004 19:00:00	84.3	85.9	81.8	50.45	0
07/06/2004 20:00:00	78.9	82	75.8	66.41	0
07/06/2004	75	76	74	78.75	0
21:00:00 07/06/2004	72.3	74.3	71.2	86.8	0
22:00:00 07/06/2004	70.6	71.7	69.3	92	0
23:00:00 07/07/2004					0
00:00:00 07/07/2004	.69.4	70.1	68.6	95.8	
01:00:00	68.2	69	67.2	97.7	0
07/07/2004 02:00:00	67.7	68.2	66.9	98.8	0
07/07/2004 03:00:00	66.9	67.6	66.3	99.6	0
07/07/2004 04:00:00	67.1	67.6	66.6	99.8	0.01
07/07/2004 05:00:00	66.8	67.3	66.3	99.9	0
07/07/2004 06:00:00	67.3	70	66.3	99.9	0
07/07/2004 07:00:00	74.1	77.1	70	87.8	0
07/07/2004 08:00:00	78.2	79.4	76.8	73.2	0
07/07/2004 09:00:00	80.4	81.5	79.2	67.38	0
07/07/2004 10:00:00	82.4	83.7	81.2	62.88	0
07/07/2004 11:00:00	84.7	86.2	82.9	61.9	0
07/07/2004 12:00:00	86.7	88.1	85.4	59.66	0
07/07/2004 13:00:00	87.8	88.6	87.2	60.02	0
07/07/2004	88.6	89.9	87.8	61.18	0
14:00:00 07/07/2004	85.2	88.4	81.6	71.04	0
15:00:00 07/07/2004	76.5	81.9	74.1	90.4	0.01
16:00:00 07/07/2004	73.5	74.6	72.7	92.9	0.09
17:00:00 07/07/2004	72.6	73.9	71.9	97.3	0.23
18:00:00	12.0	13.7	11.7	91.3	0.43

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/07/2004	73.6	73.9	73.1	98.2	0
19:00:00					
07/07/2004 20:00:00	73.4	74	72.7	98.6	0
07/07/2004	70.5	72	71.0	00.0	0
21:00:00	72.5	73	71.8	99.9	0
07/07/2004	72.3	72.9	71.8	100	0
22:00:00	. —				
07/07/2004 23:00:00	72.7	73.3	72.1	99.9	0
07/08/2004	<b></b>				^
00:00:00	.72.8	73.3	72	99	0
07/08/2004	71.6	72.6	70.6	99.9	0
01:00:00		.2.0			
07/08/2004 02:00:00	70.7	71.3	70	100	0
07/08/2004					^
03:00:00	70	70.5	69.4	100	0
07/08/2004	69.5	70	68.8	100	0
04:00:00	09.5	70		100	
07/08/2004	69.1	69.6	68.7	100	0
05:00:00 07/08/2004					
06:00:00	69.6	71.1	68.7	100	0
07/08/2004	72.5	74.1	70.7	98.4	0
07:00:00	12.5	/4.1	70.7	30.4	
07/08/2004	75.9	77.3	73.8	89.3	0
08:00:00 07/08/2004					
09:00:00	78.7	80.7	76.9	80.6	0
07/08/2004	81.6	82.9	80.2	70.35	0
10:00:00	01.0	02.9	00.2	70.55	
07/08/2004	82.7	83.9	81.2	64.79	0
11:00:00 07/08/2004					
12:00:00	84.3	85.4	83.4	58.92	0
07/08/2004	05.4	96.4	92.0	50.06	
13:00:00	85.4	86.4	83.9	50.26	0
07/08/2004	86.4	87.2	85	46.7	0
14:00:00					
07/08/2004 15:00:00	86.3	87.7	84.6	46.14	0
07/08/2004	05.4	06.0	04.0	40.17	
16:00:00	85.4	86.8	84.3	49.45	0
07/08/2004	84.9	87.1	83.9	51.58	0
17:00:00		07.1		21.50	·
07/08/2004 18:00:00	85.6	86.9	83.6	51.54	0
10:00:00					I

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/08/2004 19:00:00	83.6	84.6	82	55.82	0
07/08/2004	78.2	82.2	74.5	62.29	0
20:00:00 07/08/2004	73.5	75	70.6	80.2	0
21:00:00 07/08/2004			•		
22:00:00 07/08/2004	69.7	71.2	67.4	89	0
23:00:00	67.9	69.4	67.2	90	0
07/09/2004 00:00:00	. 67.5	69	66.1	88.4	0
07/09/2004 01:00:00	67.6	68.2	66.2	85.5	0
07/09/2004 02:00:00	65.9	67.5	64.9	89	0
07/09/2004 03:00:00	66.6	67.3	65.7	85	0
07/09/2004 04:00:00	68.8	71.9	65.6	78.73	0
07/09/2004 05:00:00	73.5	74.7	71.7	67.34	0
07/09/2004 06:00:00	72.1	73.5	70.8	72.55	0
07/09/2004 07:00:00	74.1	75	72.9	68.51	0
07/09/2004 08:00:00	75.7	76.8	74.9	61.92	0
07/09/2004 09:00:00	76.8	78.1	75.7	55.58	0
07/09/2004 10:00:00	78.4	79.2	77.5	52.32	0
07/09/2004 11:00:00	79	79.7	78.3	48.99	0
07/09/2004 12:00:00	80.2	81.3	79.1	50.57	0
07/09/2004 13:00:00	81.2	81.9	80.3	49.02	0
07/09/2004	81.7	82.5	80.1	48.69	0
14:00:00 07/09/2004	81.9	83.2	80.7	48.66	0
15:00:00 07/09/2004	82.8	84.3	81.3	49.11	0
16:00:00 07/09/2004	83	83.9	82.2	48.19	0
17:00:00 07/09/2004	82.2	83.3	80.8	50.02	0
18:00:00	J	00.0	00.0	20102	Ŭ

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/09/2004 19:00:00	79.3	81.1	77.1	57.24	0
07/09/2004 20:00:00	76.2	77.5	74.5	63.23	0
07/09/2004 21:00:00	73.6	74.9	71.7	69.04	0
07/09/2004 22:00:00	71.3	72	70.4	73.48	0
07/09/2004 23:00:00	68.6	71.7	66.6	80.9	0
07/10/2004 00:00:00	. 66.2	68	64.5	88.7	0
07/10/2004 01:00:00	64.8	66.7	63.4	92	0
07/10/2004 02:00:00	63.7	64.5	62.8	95.1	0
07/10/2004 03:00:00	62.5	63.2	61.5	96.5	0
07/10/2004 04:00:00	61.6	62.2	60.8	98.6	0
07/10/2004 05:00:00	60.7	62	60.1	99.2	0
07/10/2004 06:00:00	61.1	62.6	60.3	99.4	0
07/10/2004 07:00:00	66.5	70.5	62.3	91.8	0
07/10/2004 08:00:00	73.2	76.4	70.5	70.8	0
07/10/2004 09:00:00	76.7	77.9	75.6	59.01	0
07/10/2004 10:00:00	78.4	80.1	76.9	55.96	0
07/10/2004 11:00:00	79.5	80.7	78.3	54.68	0
07/10/2004 12:00:00	81.1	82.3	79.7	52.92	0
07/10/2004 13:00:00	82	82.8	81.3	53.37	0
07/10/2004 14:00:00	83.2	84.6	81.9	54.34	0
07/10/2004 15:00:00	83.6	84.5	83	53.88	0
07/10/2004 16:00:00	84.6	86.1	83	52.56	0
07/10/2004 17:00:00	84	85.4	83	51.28	0
07/10/2004 18:00:00	83.4	84.3	82.5	53.88	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/10/2004 19:00:00	81.9	84.8	78.9	61.95	0
07/10/2004 20:00:00	77.5	79.1	76.2	73.71	0
07/10/2004 21:00:00	74	76.5	73	83.8	0
07/10/2004 22:00:00	72.5	73.8	71.5	89	0
07/10/2004 23:00:00	71.9	73	70.1	90.9	0
07/11/2004 00:00:00	, 69.9	70.5	68.3	95.8	0
07/11/2004 01:00:00	68.8	69.4	68.2	97.9	0
07/11/2004 02:00:00	68.2	68.9	67.7	98.3	0
07/11/2004 03:00:00	67.6	68.5	66.8	98.6	0
07/11/2004 04:00:00	67.2	67.7	66.5	99.4	0
07/11/2004 05:00:00	66.9	67.3	66.4	99.6	0
07/11/2004 06:00:00	67.2	68.2	66.1	99.1	0
07/11/2004 07:00:00	72.3	75.9	68	93.2	0
07/11/2004 08:00:00	76.9	77.9	75.5	84.6	0
07/11/2004 09:00:00	78.5	79.2	77.5	80.5	0
07/11/2004 10:00:00	78.7	80.6	77.7	75.71	0
07/11/2004 11:00:00	81.2	83.1	80	67.88	0
07/11/2004 12:00:00	83.4	84.3	82.3	64.04	0
07/11/2004 13:00:00	84.8	85.7	83.6	61.65	0
07/11/2004 14:00:00	86.1	87.1	85.1	56.7	0
07/11/2004 15:00:00	86.6	87.4	85.7	56.12	0
07/11/2004 16:00:00	85.7	86.9	84.1	59.45	0
07/11/2004 17:00:00	83.3	84.4	82.7	70.15	0
07/11/2004 18:00:00	81.8	83.7	80.2	73.07	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/11/2004 19:00:00	81.4	82	80.1	69.67	0
07/11/2004 20:00:00	80.9	81.5	80.1	65.92	0
07/11/2004 21:00:00	80	80.7	79.5	67.11	0
07/11/2004 22:00:00	79.4	80.1	78.8	73.07	0
07/11/2004 23:00:00	78.5	79.2	77.6	79.84	0
07/12/2004 00:00:00	,77.8	78.2	77.1	83	0
07/12/2004 01:00:00	76.8	<b>7</b> 7.7	76	84.5	0
07/12/2004 02:00:00	75.8	76.3	75.3	86.2	0
07/12/2004 03:00:00	75.6	76	75.2	86.1	0
07/12/2004 04:00:00	75.4	75.7	75	86.5	0
07/12/2004 05:00:00	75	75.4	74.6	87.2	0
07/12/2004 06:00:00	75	75.8	74.4	87.3	0
07/12/2004 07:00:00	75.9	76.8	75.5	85.3	0
07/12/2004 08:00:00	77.3	78	76.3	84.5	0
07/12/2004 09:00:00	77.6	78.5	76.9	85.8	0
07/12/2004 10:00:00	78	79.1	77.3	87.4	0
07/12/2004 11:00:00	78.8	79.4	77.4	88.5	0.08
07/12/2004 12:00:00	76.4	77.6	75.8	97.5	0.4
07/12/2004 13:00:00	76.6	79.2	75.1	97.4	0.09
07/12/2004 14:00:00	76	78.2	74.5	97.7	0.08
07/12/2004 15:00:00	77.5	79.2	75.2	94.7	0
07/12/2004 16:00:00	75.5	78.8	73.9	97.2	0.36
07/12/2004 17:00:00	74	74.6	73.4	99.6	1.81
07/12/2004 18:00:00	74	74.6	73.6	100	0.16

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	1	Temperature (°F)	Humidity (%)	Precipitation (in)
07/12/2004	74	74.6	73.5	100	0.28
19:00:00	/ +	74.0	13.3	100	0.26
07/12/2004	73.8	74.4	73.1	99.9	0
20:00:00	, , , ,	,			
07/12/2004	73.2	73.7	72.9	100	0
21:00:00					
07/12/2004 22:00:00	73	73.3	72.5	100	0
07/12/2004					· · · · · · · · · · · · · · · · · · ·
23:00:00	73.3	73.8	72.7	100	0.3
07/13/2004					_
00:00:00	· <b>7</b> 3	73.6	72.6	100	0
07/13/2004	70.7	72.1	70.4	100	0
01:00:00	72.7	73.1	72.4	100	0
07/13/2004	72.3	72.9	71.8	100	0
02:00:00	12.5	12.9	71.0	100	U
07/13/2004	72.2	72.9	71.5	100	0
03:00:00			,		
07/13/2004	72.2	72.6	71.5	100	0
04:00:00 07/13/2004					
05:00:00	71.4	72	70.8	99.8	0
07/13/2004			<b>5</b> 0.0	100	
06:00:00	71.1	71.4	70.8	100	0
07/13/2004	71.1	71.4	70.7	100	0
07:00:00	71.1	/ 1. 7	70.7	100	
07/13/2004	71.4	71.8	71	99.6	0
08:00:00 07/13/2004					
09:00:00	71.2	71.7	70.8	98.5	0
07/13/2004					
10:00:00	71.2	72.4	70.6	97.2	0
07/13/2004	74.1	75.0	70.1	00.7	^
11:00:00	74.1	75.8	72.1	88.7	0
07/13/2004	75.2	76.8	74.2	85.7	0
12:00:00	13.2	70.0	77.2	05.7	V
07/13/2004	76	76.8	75.2	83	0
13:00:00					
07/13/2004 14:00:00	77.3	78.9	76.3	79.39	0
07/13/2004					
15:00:00	78.3	79.4	77.2	76.45	0
07/13/2004	70.1	90	79.0	74.52	
16:00:00	79.1	80	78.2	74.57	0
07/13/2004	78.9	79.7	78.2	75.76	0
17:00:00	10.9	17.1	10.2	13.10	· · · · · · · · · · · · · · · · · · ·
07/13/2004	78.9	80	78.2	76.26	0
18:00:00	/				

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/13/2004 19:00:00	77.8	79.9	76.3	79.96	0
07/13/2004 20:00:00	74.1	76.6	71.8	87.9	0
07/13/2004 21:00:00	71.3	72.5	70.4	95.9	0
07/13/2004 22:00:00	70.1	71.1	69.2	99.2	0
07/13/2004 23:00:00	69.4	70	68.6	100	0
07/14/2004 00:00:00	68.4	69.3	67.6	100	0
07/14/2004 01:00:00	68.7	69.4	67	100	0
07/14/2004 02:00:00	69.2	69.5	68.6	99.8	0
07/14/2004 03:00:00	69.8	70.4	69	98.5	0.02
07/14/2004 04:00:00	69.2	69.9	68.6	99.1	0
07/14/2004 05:00:00	68.1	69	67.2	99.8	0.01
07/14/2004 06:00:00	68.8	70.1	68	98.7	0
07/14/2004 07:00:00	70.2	70.8	69.6	96.7	0
07/14/2004 08:00:00	71.9	73.3	70.4	94.2	0
07/14/2004 09:00:00	73.8	75.5	72.5	90.2	0
07/14/2004 10:00:00	75.3	75.8	74.6	87.9	0
07/14/2004 11:00:00	75.8	76.4	75	88.6	0
07/14/2004 12:00:00	77.8	80.5	75.9	87.9	0
07/14/2004	81.4	84.2	79.6	83.4	0
07/14/2004 14:00:00	80.1	83.9	72.3	87	0.31
07/14/2004 15:00:00	73.2	76	69	85.1	0.75
07/14/2004 16:00:00	72.9	74.8	71.8	93.4	0.03
07/14/2004 17:00:00	73.6	74.2	73	92.4	0
07/14/2004 18:00:00	73.5	73.9	73	92.9	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/14/2004 19:00:00	72.7	73.3	72	95.9	0
07/14/2004 20:00:00	72.7	73.5	72	95	0
07/14/2004 21:00:00	71.5	72.7	70.6	94.1	0
07/14/2004 22:00:00	69.8	71	68.8	95.3	0
07/14/2004 23:00:00	68.6	69.2	67.8	99	0
07/15/2004 00:00:00	, 67.6	68.8	66.8	99	0
07/15/2004 01:00:00	65.8	67.2	64.5	99.8	0
07/15/2004 02:00:00	65.7	66.8	64.4	99.5	0
07/15/2004 03:00:00	65.2	66.2	64.2	98.7	0
07/15/2004 04:00:00	65	65.5	64.4	94	0
07/15/2004 05:00:00	64.3	65.2	63.1	94.3	0
07/15/2004 06:00:00	64.3	66.4	63.2	96.3	0
07/15/2004 07:00:00	70	72.6	66.2	83.5	0
07/15/2004 08:00:00	73.8	75.3	72.3	73.41	0
07/15/2004 09:00:00	76.1	77	74.9	67.63	0
07/15/2004 10:00:00	77.3	78.3	76.3	63.09	0
07/15/2004 11:00:00	78.2	79.3	76.8	59.55	0
07/15/2004 12:00:00	79.6	80.5	78.1	56.39	0
07/15/2004 13:00:00	79.9	81.3	78.4	53.85	0
07/15/2004 14:00:00	79.4	80.6	78.3	57.05	0
07/15/2004 15:00:00	80.2	81.9	78.7	55.95	0
07/15/2004 16:00:00	80	81.7	78.7	54.4	0
07/15/2004 17:00:00	80.6	81.8	79.1	53.42	0
07/15/2004 18:00:00	79.6	81.5	78.1	53.77	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/15/2004 19:00:00	77.1	78.7	75.3	58.29	0
07/15/2004 20:00:00	74	76.2	71.9	66.14	0
07/15/2004 21:00:00	70.6	72.4	68	74.25	0
07/15/2004 22:00:00	66.7	68.3	65.4	87.1	0
07/15/2004 23:00:00	70.2	72.1	65.5	71.28	0
07/16/2004	, 67	69.5	64.8	77.03	0
07/16/2004 01:00:00	64.4	65.2	63.7	87.9	0
07/16/2004 02:00:00	63	64.8	61.6	91.9	0
07/16/2004 03:00:00	61.6	62.6	60.1	96.1	0
07/16/2004 04:00:00	63.2	65.1	59.8	95.4	0
07/16/2004 05:00:00	65.4	66.1	64.8	90.3	0
07/16/2004 06:00:00	66.4	67.3	65.8	86.5	0
07/16/2004 07:00:00	68.9	71.1	66.8	79.2	0
07/16/2004 08:00:00	72.7	73.8	70.7	70.26	0
07/16/2004 09:00:00	76.2	78.4	73.2	63.88	0
07/16/2004 10:00:00	78.7	80	77.6	57.69	0
07/16/2004 11:00:00	80	80.1	79.6	56.86	0
07/16/2004 12:00:00	79.1	80.7	78.1	58.3	0
07/16/2004 13:00:00	79.1	81.1	78.1	59.92	0
07/16/2004 14:00:00	79.6	80.5	78.8	59.09	0
07/16/2004 15:00:00	80.4	82.6	78.2	58.89	0
07/16/2004 16:00:00	81.8	83.1	80.5	56.4	0
07/16/2004 17:00:00	82.2	83	81.4	56.39	0
07/16/2004 18:00:00	81.6	82.7	80.9	57.42	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/16/2004 19:00:00	80.1	81.7	78.2	61.6	0
07/16/2004 20:00:00	75.6	78.5	73.2	71.78	0
07/16/2004 21:00:00	72.9	73.7	72	83.4	0
07/16/2004 22:00:00	71.5	72.4	70.9	86.5	0
07/16/2004 23:00:00	69.7	71.9	68.8	90.8	0
07/17/2004 00:00:00	68.8	69.4	68.2	95.5	0
07/17/2004 01:00:00	68	68.6	67.4	96.2	0
07/17/2004 02:00:00	66.9	68.2	65.9	94.9	0
07/17/2004 03:00:00	66	67.7	64.9	94.4	0
07/17/2004 04:00:00	64.6	65.7	63.9	98.2	0
07/17/2004 05:00:00	64	64.9	63	98.7	0
07/17/2004 06:00:00	64	65.8	62.7	99.3	0
07/17/2004 07:00:00	69	74.4	65.5	90.9	0
07/17/2004 08:00:00	75.9	78.1	73.5	73.03	0
07/17/2004 09:00:00	78.9	80.5	77.5	67.48	0
07/17/2004 10:00:00	81.8	82.7	79.9	62.15	0
07/17/2004 11:00:00	83.1	84.2	81.9	55.45	0
07/17/2004 12:00:00	84	84.8	83.2	55.59	0
07/17/2004 13:00:00	84.5	85.4	83.6	56.61	0
07/17/2004 14:00:00	85.1	85.9	83.9	53.33	0
07/17/2004 15:00:00	85	85.9	84.1	50.57	0
07/17/2004 16:00:00	83.4	85.1	81.6	54	0
07/17/2004 17:00:00	80.6	82	80	57.79	0
07/17/2004 18:00:00	80	80.9	78.3	64.67	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/17/2004 19:00:00	77.7	78.7	75.8	70.35	0
07/17/2004 20:00:00	75.2	76.4	73.7	82.5	0
07/17/2004 21:00:00	74.9	77.2	73.2	84.9	0
07/17/2004	75.8	77.2	74.6	77.06	0
07/17/2004 23:00:00	74.3	75.6	73.1	79.91	0
07/18/2004	,72.6	73.5	71.8	86.9	0
07/18/2004	71.7	72.3	71.1	90.3	0
07/18/2004 02:00:00	70.6	71.3	69.6	94.9	0
07/18/2004	70.1	70.6	69.6	96.8	0
07/18/2004 04:00:00	69.9	70.5	69.4	98.4	0.02
07/18/2004 05:00:00	69.5	70	68.9	99.5	0.02
07/18/2004 06:00:00	69.3	69.6	68.9	99.4	0
07/18/2004 07:00:00	69.6	69.9	69.2	98	0.01
07/18/2004 08:00:00	69.7	70.4	69.2	98.6	0.04
07/18/2004 09:00:00	69.7	70.2	69	96.9	0.11
07/18/2004 10:00:00	69.4	69.8	69	96.3	0.18
07/18/2004 11:00:00	68.7	69.6	68	97.9	0.5
07/18/2004 12:00:00	67.3	68.2	66.9	99	0.31
07/18/2004 13:00:00	68.9	70.6	67.1	98.6	0.04
07/18/2004 14:00:00	70.5	71.2	70	98.8	0.04
07/18/2004 15:00:00	71	71.4	70.4	97.5	0.01
07/18/2004 16:00:00	71.4	72.1	70.7	96.1	0
07/18/2004 17:00:00	72.3	72.9	71.8	94.3	0
07/18/2004 18:00:00	71.7	72.6	70.8	92.7	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/18/2004	70.5	71.1	69.9	94	0
19:00:00	70.5	/1.1	09.9	74	U
07/18/2004	69.8	70.5	69.4	95.5	О
20:00:00 07/18/2004					
21:00:00	69.4	69.9	68.8	96.5	0
07/18/2004 22:00:00	68.7	69.3	68.2	97.7	0
07/18/2004 23:00:00	68.1	68.7	67.7	97.7	0
07/19/2004 00:00:00	67.7	68.2	67.4	98.4	0
07/19/2004 01:00:00	67.8	68.2	67.4	97.4	0
07/19/2004 02:00:00	67.4	67.7	67.1	97.7	0
07/19/2004 03:00:00	67.4	67.7	67	97.8	0
07/19/2004 04:00:00	67.4	67.7	67.1	98	0
07/19/2004 05:00:00	67.3	67.6	66.9	98	0
07/19/2004 06:00:00	67.2	68	66.8	97.9	0
07/19/2004 07:00:00	68.3	69.2	67.4	95.7	0
07/19/2004 08:00:00	69	69.6	68.6	92.8	0
07/19/2004 09:00:00	70.3	73.5	69	88.9	0
07/19/2004 10:00:00	72.4	73.1	71.8	83	0
07/19/2004 11:00:00	74.3	75.5	72.6	77.41	0
07/19/2004 12:00:00	76	77.6	74.6	73.81	0
07/19/2004 13:00:00	78.5	79.7	76.6	69.28	0
07/19/2004 14:00:00	80.7	82.7	79.4	64.85	0
07/19/2004 15:00:00	80	82.6	77.8	70.85	0
07/19/2004 16:00:00	80.3	81.5	78.6	70.93	0
07/19/2004 17:00:00	80.2	81.4	79	68.77	0
07/19/2004 18:00:00	80.5	81.3	80	69.71	0

Date &	Average	Maximum	Minimum	Relative	Total
Time	Temperature (°F)	Temperature (°F)	Temperature (°F)	Humidity (%)	Precipitation (in)
07/19/2004	78.4	80.7	76	76.70	0
19:00:00	70.4	80.7	/0	76.78	0
07/19/2004	74.6	76.5	73.5	00.1	0
20:00:00	74.0	70.5	13.3	88.1	0
07/19/2004	72.8	73.9	71.2	02.2	0
21:00:00	12.0	13.9	11.2	93.3	0
07/19/2004	71.2	72	70.6	07.1	0
22:00:00	/1.2	12	70.0	97.1	U
07/19/2004	70.2	71	69.6	98.9	0
23:00:00	10.2	71	09.0	90.9	U
07/20/2004	· 70	71.1	69.2	98.9	0
00:00:00	70	/ 1.1	09.2	70.7	<u> </u>
07/20/2004	70.4	71.4	69.8	96	0
01:00:00	70.4	71.7	02.0		U
07/20/2004	70.2	70.6	69.5	95.8	0
02:00:00	70.2	70.0	07.5	75.0	0
07/20/2004	69	70.5	67.4	93.3	0
03:00:00		70.5	07.4	75.5	
07/20/2004	68	69.4	67	90.2	0
04:00:00			0,	70.2	
07/20/2004	68.3	69.3	65.8	86.2	0
05:00:00			00.0		<u> </u>
07/20/2004	66.3	67.4	65.5	93.5	0
06:00:00					
07/20/2004 07:00:00	69.4	71.9	66.6	90.9	0
07/20/2004					
08:00:00	74.2	76.6	71.9	79.38	0
07/20/2004					
09:00:00	77.3	79.4	75.8	72.4	0
07/20/2004					
10:00:00	80	80.9	78.5	68.48	0
07/20/2004					
11:00:00	80.8	82.3	79.5	66.7	0
07/20/2004					
12:00:00	82.9	84.5	81.7	61.09	0
07/20/2004					
13:00:00	83.9	85.4	82.7	55.91	0
07/20/2004	00:				
14:00:00	83.4	85.1	80.9	66.25	0
07/20/2004	00.4	0.4 =	0.0		
15:00:00	83.4	84.7	81.9	64.91	0
07/20/2004	02.0	94.5	00.0	(2.52	
16:00:00	83.8	84.5	82.8	63.73	0
07/20/2004	92.4	04.5	01.0	(0.0	
17:00:00	83.4	84.5	81.9	62.8	0
07/20/2004	82.7	83.3	81.8	62	^
18:00:00	02.1	03.3	01.0	63	0

Date & Time	Average Temperature (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)	Relative Humidity (%)	Total Precipitation (in)
07/20/2004 19:00:00	81	82.5	78.1	67.93	0
07/20/2004 20:00:00	75.7	78.1	73.7	83.8	0
07/20/2004 21:00:00	72.6	74.4	71.8	91.2	0
07/20/2004 22:00:00	70.8	72.2	69.9	96.3	0
07/20/2004 23:00:00	70.2	70.8	69	98.3	0

## APPENDIX C. SOIL MOISTURE

Demonstrator: Human Factors Applications, Inc. Date: 6/14/2004

Times: 0800 hours, 1600 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
1	36 to 48		
Wooded Area	0 to 6		
•	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48	·	
Blind Grid/Moguls	0 to 6	3.5	3.4
	6 to 12	24.7	25.1
	12 to 24	39.5	39.1
	24 to 36	35.7	36.3
	36 to 48	39.9	40.0

Demonstrator: Human Factors Applications, Inc. Date: 6/15/2004
Times: 0800 hours, 1600 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.3	65.2
•	6 to 12	75.1	75.3
	12 to 24	79.2	79.7
	24 to 36	55.8	55.6
	36 to 48	51.7	52.0
Wooded Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	22.3	22.2
	6 to 12	6.5	6.7
	12 to 24	19.7	19.4
	24 to 36	26.4	26.2
	36 to 48	52.3	52.1
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 6/16/2004 Times: 0800 hours, 1600 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.4	65.3
	6 to 12	75.1	75.5
	12 to 24	79.5	79.7
	24 to 36	55.8	56.2
	36 to 48	52.2	52.4
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	22.7	22.6
	6 to 12	6.9	7.0
	12 to 24	19.2	19.0
	24 to 36	26.5	26.3
	36 to 48	52.6	52.9
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 6/17/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.4	65.3
	6 to 12	75.7	76.1
	12 to 24	80.4	80.1
	24 to 36	56.8	57.0
	36 to 48	52.1	52.0
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	23.1	23.0
•	6 to 12	7.3	7.1
	12 to 24	19.1	19.3
	24 to 36	26.7	25.8
	36 to 48	53.4	53.3
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 6/18/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.2	65.0
	6 to 12	76.4	76.3
	12 to 24	79.7	80.2
	24 to 36	57.3	57.5
	36 to 48	52.1	52.5
Wooded Area	0 to 6		
١	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	22.7	22.4
	6 to 12	7.3	7.3
	12 to 24	19.4	19.5
	24 to 36	25.9	26.1
	36 to 48	53.7	54.1
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		i
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 6/28/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	63.2	63.1
	6 to 12	72.8	73.0
	12 to 24	78.1	78.3
	24 to 36	60.2	60.4
	36 to 48	50.2	50.0
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.2	19.9
	6 to 12	5.8	6.0
	12 to 24	19.9	19.9
	24 to 36	25.0	25.2
	36 to 48	56.7	56.7
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 6/29/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	63.0	63.0
	6 to 12	73.2	73.1
	12 to 24	78.5	78.4
	24 to 36	60.1	60.2
	36 to 48	50.5	50.9
Wooded Area	0 to 6		
١	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.1	20.2
	6 to 12	5.9	6.3
	12 to 24	19.8	20.2
	24 to 36	25.0	25.5
	36 to 48	56.9	57.2
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 6/30/2004

	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	62.5	62.7
	6 to 12	73.0	73.1
	12 to 24	78.1	78.3
	24 to 36	60.0	60.4
	36 to 48	51.3	51.5
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.0	20.2
-	6 to 12	6.0	6.3
	12 to 24	20.7	20.9
	24 to 36	25.6	26.1
	36 to 48	57.5	57.7
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 7/1/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	62.5	62.4
	6 to 12	73.5	73.8
	12 to 24	78.0	77.9
	24 to 36	60.9	60.7
	36 to 48	51.3	51.7
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.0	20.0
	6 to 12	6.6	6.8
	12 to 24	21.5	22.1
	24 to 36	26.8	27.0
	36 to 48	57.2	57.4
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24	:	
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 7/2/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	62.1	61.9
	6 to 12	74.2	74.0
	12 to 24	78.2	78.1
	24 to 36	60.5	60.4
	36 to 48	51.5	51.5
Wooded Area	0 to 6		
•	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	19.7	19.6
	6 to 12	6.9	6.9
	12 to 24	22.5	22.4
	24 to 36	26.8	26.9
	36 to 48	57.5	57.9
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 7/6/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	63.4	63.3
	6 to 12	74.7	74.6
	12 to 24	78.9	79.0
	24 to 36	60.1	60.3
	36 to 48	52.7	53.1
Wooded Area	0 to 6		
,	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.9	20.7
	6 to 12	7.7	7.9
	12 to 24	22.9	23.1
	24 to 36	26.5	26.3
	36 to 48	57.6	57.9
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24	'	
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/7/2004 Times: 0800 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	63.8	
	6 to 12	74.4	
	12 to 24	79.8	
	24 to 36	60.0	
	36 to 48	52.5	
Wooded Area	0 to 6		
,	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.5	
·	6 to 12	7.9	
	12 to 24	23.5	
	24 to 36	26.0	
	36 to 48	58.3	
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
:	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Date: 7/8/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Wooded Area	0 to 6	15.0	14.9
1	6 to 12	6.0	6.3
	12 to 24	5.9	5.8
	24 to 36	54.8	54.7
	36 to 48	56.9	57.2
Open Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36	,	
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 6/1/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6		
	6 to 12		
	12 to 24	]	
	24 to 36	1	
	36 to 48		
Wooded Area	0 to 6	14.5	14.4
1	6 to 12	6.0	6.1
	12 to 24	5.9	5.9
	24 to 36	54.4	54.1
	36 to 48	57.5	57.3
Open Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		·
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/12/2004

Times: 0800 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	63.3	
	6 to 12	74.9	
	12 to 24	79.3	
	24 to 36	59.5	
	36 to 48	52.9	
Wooded Area	0 to 6		
,	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	20.8	
	6 to 12	8.3	
	12 to 24	23.9	
	24 to 36	26.5	
	36 to 48	58.0	
Calibration Lanes	0 to 6		
	6 to 12	:	
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
•	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/13/2004 Times: 0800 hours, 1600 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.8	65.5
	6 to 12	76.9	77.0
	12 to 24	79.9	80.3
	24 to 36	61.7	61.4
	36 to 48	55.8	56.2
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	22.6	22.5
-	6 to 12	9.0	9.2
	12 to 24	25.8	26.1
	24 to 36	27.6	27.7
	36 to 48	59.7	60.0
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/14/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.3	65.2
	6 to 12	77.2	77.2
	12 to 24	80.0	80.4
	24 to 36	61.5	61.7
	36 to 48	56.3	56.5
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	22.3	22.2
	6 to 12	9.0	9.0
	12 to 24	26.2	26.3
	24 to 36	27.9	28.0
	36 to 48	60.2	60.4
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/15/2004

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.5	65.4
	6 to 12	77.7	77.5
	12 to 24	80.0	79.5
	24 to 36	62.6	62.9
	36 to 48	56.9	57.1
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	22.0	22.0
	6 to 12	9.3	9.2
	12 to 24	26.5	26.4
	24 to 36	28.4	28.5
	36 to 48	60.0	59.7
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/16/2004 Times: 0800 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6	65.0	
	6 to 12	77.2	
	12 to 24	79.7	
	24 to 36	62.8	
	36 to 48	57.6	
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6	21.8	
	6 to 12	9.4	
	12 to 24	26.0	
	24 to 36	28.1	
	36 to 48	59.9	
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		

Demonstrator: Human Factors Applications, Inc. Date: 7/19/2004

Times: 1130 hours, 1530 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36	·	
	36 to 48		:
Wooded Area	0 to 6		
T.	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6		*
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6	4.6	4.9
	6 to 12	4.5	4.2
	12 to 24	7.8	7.2
	24 to 36	37.7	37.1
	36 to 48	39.5	39.6

Demonstrator: Human Factors Applications, Inc. Date: 7/20/2004

Times: 0800 hours

Probe Location:	Layer, in.	AM Reading, %	PM Reading, %
Wet Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Wooded Area	0 to 6		
1	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Open Area	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Calibration Lanes	0 to 6		
	6 to 12		
	12 to 24		
	24 to 36		
	36 to 48		
Blind Grid/Moguls	0 to 6	4.4	
	6 to 12	4.7	
	12 to 24	7.3	
	24 to 36	37.0	
	36 to 48	39.8	

## APPENDIX D. DAILY ACTIVITY LOGS

			1	,									
	No.		Start	Starus Stop 1	Duration,	Operational	OP	Operational Status Track	Track	Track Method=Other			
Date	of People	Area Tested	Time	Time	min	Status	Stat Code	- Comments	Method		Pattern	Pattern Field Conditions	nditions
6/14/2004	2	CALIBRATION LANE	910	923	1.5	INTITAL MOBILIZATÎON	æ	INITIAL MOBILIZATION	NA	SCHONSTEDT	LINEAR	SUNNY	MUDDY
6/14/2004	:2	CALIBRATION LANE	925	930	ľĄŲ	COLLECT DATA	124	COLLECT DATA	NA	SCHONSTEDT	LINEAR	STINNY	МППОРУ
6/14/2004	2	CALIBRATION LANE	930	1015	45	DOWNTIME MAINTENANCE CHECK	Ľ	CHANGE BATTERIES	ÑÃ	SCHONSTEDT			MUDDY
6/14/2004	2	CALIBRATION LANE	1015	1030	13	BREAK/LUNCH	ïΩ	BREAK/LUNCH	NA	SCHONSTEDT	LINEAR		
6/14/2004	.73	CALIBRATION LANE	1030	1145	75	COLLECT DATA	27	COLLECT DATA	NA	SCHONSTEDT		LINEAR SUNNY MUDDY	MUDDY
6/14/2004	2	CALIBRATION LANE	1143	1245	09	BREAK/LUNCH	liv).	BREAK/LUNCH	N.	SCHONSTEDT	LINEAR	SITNNY	MIDDY
6/14/2004	2	BLIND TEST GRID	1245	1430	105	COLLECT DATA	4	COLLECT DATA	Ą.			YNNIS	
6/14/2004	2	BLIND TEST GRID	1430	1505	35	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	905	1145	160	DAILY START STOP	3	SET UP GRID	ĄN	SCHONSTEDT	LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	1145	1230	45	BREAK/LUNCH	5	BREAK/LUNCH	A A		LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	1230	1330	09	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY	LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	1330	1340	10	DAILY START STOP	3	MOVE STRING ALONG GRID	ĄX	SCHONSTEDT LINEAR SILVAY MITDEX	INFAR	YNNI	עמשווע

Note: Activities pertinent to this specific demonstration are indicated in highlighted text.

			ı										
Date	No. of People	Area Tested	Status Start Time	Status Stop I	Status Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track Method=Other	Track Method	Track Method=Other Evalain	Pottern	Wold Conditions	San Stille
6/15/2004	2	C THE L		1420	ę	ج ا			;				STOTION
			OFC T	775	₽	COLLECT DATA	4	COLLECT DATA	AA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	1420	1440	20	BREAK/LUNCH	ď	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	1440	1500	20	DAILY START STOP	3	MOVE STRING ALONG GRID	ΝΑ	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/15/2004	2	OPEN FIELD	1500	1515	15	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR	LINEAR	YOUNY MUDDY	MUDDY
6/16/2004	2	OPEN FIELD	745	800	15	DAILY START STOP	3	START OF OPERATIONS	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
6/16/2004	2	OPEN FIELD	800	840	40	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR CLOUDY MINDY	LINEAR	CLOLDY	VOUL
6/16/2004	2	OPEN FIELD	840	850	10	DAILY START STOP	33	MOVE STRING ALONG GRID	Ą	SCHONSTEDT I INEAR CI OIDIXMIIDIX	INEAR	CLOTDY	VOUTIN
6/16/2004	2	OPEN FIELD	850	930	40	COLLECT DATA	4	COLLECT DATA	Į Ž	SCHONSTEDT I INEAR CLOUDY MIDDY	TNFAR	CI OI D	YOU DA
6/16/2004	2	OPEN FIELD	930	935	35	BREAK/LUNCH	2	BREAK/LUNCH	, A	SCHONSTEDT I INEAR CLOID YMIDDY	INFAR	CI OTINY	MIDDY
6/16/2004	2	OPEN FIELD	935	1040	55	DAILY START STOP	r.	SET UP GRID	ĄN	SCHONSTEDT LINEAR CLOUDYMIDDY	LINEAR	CLOUDY	YGGIM
6/16/2004	2	OPEN FIELD	1040	1115	35	COLLECT DATA	4	COLLECT DATA	Ą Z	SCHONSTEDT I INFAR CI OUR WITHOUT	I TNFAR	CIOIDV	אמשוא
6/16/2004	2	OPEN FIELD	1115	1145	30	DAILY START STOP	8	MOVE STRING ALONG GRID	, AN	SCHONSTEDT I INEAR CLOIDY MIDDY	INFAR	Yallo	A COLUMN

Date	No. of People	Area Tested	Status Start Time	Status Stop I Time	Status Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Track Method=Other Explain	Pattern	Field Conditions	rditions
6/16/2004	2	OPEN FIELD	1145	1220	35	BREAK/LUNCH	5	H	ĄX	SCHONSTEDT LINEAR CLOUDY MINDY	LINEAR	CLOUDY	Vacin
6/16/2004	2	OPEN FIELD	1220	1310	Ĉ,	COLLECT DATA	4	COLLECTDATA	δ 2	SCHONSTEDT I INEAD CTOTINGATION	INEAD	34.5	Vacable
6/16/2004	2	OPEN FIELD	1310	1330		DAILY START STOP	. "	MOVE STRING ALONG GRID	Š Ž	SCHONSTEDT LINEAR CLOIDS MIDDY	LINEAR	CLOIMY	MIDDY
6/16/2004	2	OPEN FIELD	1330	1400	30	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
6/16/2004	2	OPEN FIELD	1400	1415	15	DAILY START STOP	3	MOVE STRING ALONG GRID	Ä	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
6/16/2004	2	OPEN FIELD	1415	1430	15	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT LINEAR CLOUDY MINDX	LINEAR	CLOIDY	Vacilia
6/16/2004	2	OPEN FIELD	1430	1440	10	DAILY START STOP	33	BREAKDOWN END OF ACTIVITIES	Ä	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
6/17/2004	2	OPEN FIELD	715	800	45	DAILY START STOP	3	START OF OPERATIONS	Ä	SCHONSTEDT LINEAR SUNNY	LINEAR	SUNNX	MUDDY
6/17/2004	2	OPEN FIELD	800	850	50	DAILY START STOP	3	SET UP GRID	Ä	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	850	006	10	BREAK/LUNCH	\$2	BREAK/LUNCH	A Z	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	006	1015	75	COLLECT DATA	4	COLLECT DATA	ĄN	SCHONSTEDT LINEAR SUNNY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	1015	1025	10	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

	_			,									
Date	No. of People	Area Tested	Start Time	Stop I Time	Duration, min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Track Method=Other Fynlain	Poffern	Pottern Diald Conditions	ondifficance.
6/17/2004	2	OPEN FIELD		1040	15	RREAKAINCH	v	þ	2			C mar	
								BALLANDINCH	¥.	SCHOINSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	1040	1130	50	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	1130	1140	10	DAILY START STOP	3	MOVE STRING ALONG GRID	Ä	SCHONSTEDT LINEAR SITNNY MIDDY	LINEAR	STINNY	VGGIM
6/17/2004	7	OPEN FIELD	1140	1225	45	BREAK/LUNCH	2	BREAK/LUNCH	Z A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	1225	1320	55	COLLECT DATA	4	COLLECT DATA	NA A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/17/2004	2	OPEN FIELD	1320	1335	15	DAILY START STOP	3	MOVE STRING ALONG GRID	, Y	SCHONSTEDT LINEAR STINNY MIDDY	LINEAR	YNNIS	YOUTH
6/17/2004	2	OPEN FIELD	1335	1350	15	COLLECT DATA	4	COLLECT DATA	<b>∀</b> 2	SCHONSTEDT I INEAD STREAM	INEAD	CITABLE	A COLUMN
6/17/2004	7	OPEN FIELD	1350	1355	20	DAILY START STOP	33	MOVE STRING ALONG GRID	¥2	SCHONSTEDT LINEAR SOUNT MODEL	I INEAD	CTININI	Y COLUM
6/17/2004	2	OPEN FIELD	1355	1410	15	COLLECT DATA	4	COLLECT DATA	Y Z	SCHONSTEDT LINEAR	LINEAR	YOUTH WINIS	VOOD
6/17/2004	2	OPEN FIELD	1410	1415	\$	BREAK/LUNCH	'n	BREAK/LUNCH	Ϋ́	SCHONSTEDT I INEAR SINNY MIDDY	INFAR	YMMIS	YOUN
6/17/2004	7	OPEN FIELD	1415	1500	45	DAILY START STOP	ю	SET UP GRID	ĄZ	SCHONSTEDT I INEAR STRING MITTERS	I INFAR	CITABLE	ACCUPACION OF THE PROPERTY OF
6/17/2004	2	OPEN FIELD	1500	1515	15	DAILY START STOP	89	BREAKDOWN END OF ACTIVITIES	Y X	SCHONSTEDT I INEAR STINNY MITDLY	I INFAR	STINNY	YOUNG THE

	Ç.N.		Status	Status	Status		ŧ			Track			
Date	of People	Area Tested		Time	min	Operational	Stat Code	Operational Status Track - Comments Method	I rack Method	Method=Other Explain	Pattern	Field Conditions	nditions
6/18/2004	2	OPEN FIELD	715	720	5	DAILY START STOP	3	START OF OPERATIONS	Y.	SCHONSTEDT LINEAR SUNNY	LINEAR	SUNNY	MUDDY
6/18/2004	2	OPEN FIELD	720	830	70	COLLECT DATA	4	COLLECT DATA	A A	SCHONSTEDT LINEAR	LINEAR	YOUNY WUDDY	MUDDY
6/18/2004	2	OPEN FIELD	830	1000	90	DAILY START STOP	3	SET UP GRID	A Z	SCHONSTEDT LINEAR	LINEAR		SUNNY MUDDY
6/18/2004	2	OPEN FIELD	1000	1010	10	BREAK/LUNCH	5	BREAK/LUNCH	A Z	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/18/2004	2	OPEN FIELD	1010	1023	13	COLLECT DATA	4	COLLECT DATA	A A	SCHONSTEDT	LINEAR	LINEAR SUNNY MUDDY	MUDDY
6/18/2004	2	OPEN FIELD	1023	1031	8	DAILY START STOP	3	MOVE STRING ALONG GRID	AN	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/18/2004	2	OPEN FIELD	1031	1103	32	COLLECT DATA	4	COLLECT DATA	Y Z	SCHONSTEDT	LINEAR	SUNNY	MUDDY
6/18/2004	2	OPEN FIELD	1103	1112	6	DAILY START STOP		MOVE STRING ALONG GRID	A'A	SCHONSTEDT LINEAR	LINEAR		
6/18/2004	2	OPEN FIELD	1112	1123	11	BREAK/LUNCH	'n	BREAK/LUNCH	ď Z	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUMNY	MUDDY
6/18/2004	2	OPEN FIELD		1148	25	COLLECT DATA	4	COLLECT DATA	ď Ž	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/18/2004	2	OPEN FIELD	1148	1215	27	BREAK/LUNCH	'n	BREAK/LUNCH	₹ Z	SCHONSTEDT LINEAR	LINEAR	SUNNY	SUNNY MUDDY
6/18/2004	2	OPEN FIELD	1215	1300	45	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

	No.		Start	Stop	<b>Duration.</b>	Operational	d <sub>O</sub>	Operational Status Track	Track	Track Method-Other			
Date	of People	Area Tested	- 1	Time	Time min		Stat Code	- Comments	Method		Pattern	Pattern   Field Conditions	Inditions
6/18/2004	2	OPEN FIELD	1300	1330	30	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
6/28/2004	2	OPEN FIELD	750	930	100	DAILY START STOP	3	SET UP GRID	NA AA	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MIDDY
6/28/2004	7	OPEN FIELD	930	945	15	BREAK/LUNCH	5	BREAK/LUNCH	Y X	SCHONSTEDT I INFAR	LINEAR	VINNI	Addity ANNIS
6/28/2004	2	OPEN FIELD	945	1100	75	COLLECT DATA	4	COLLECT DATA	N A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/28/2004	2	OPEN FIELD	1100	1110	10	DAILY START STOP	3	MOVE STRING ALONG GRID	N A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/28/2004	2	OPEN FIELD	1110	1200	50	COLLECT DATA	4	COLLECT DATA	NA AA	SCHONSTEDT LINEAR STINNY	LINEAR	STINNA	MINDY
6/28/2004	2	OPEN FIELD	1200	1240	40	BREAK/LUNCH	5	BREAK/LUNCH	Ϋ́	SCHONSTEDT LINEAR SILVIN	LINEAR	STINNES	VadilM
6/28/2004	7	OPEN FIELD	1240	1305	25	COLLECT DATA	4	COLLECT DATA	Y X	SCHONSTEDT I INEAR	INFAR	SIRNA	Vadim
6/28/2004	2	OPEN FIELD	1305	1315	10	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	
6/28/2004	2	OPEN FIELD	1315	1445	90	COLLECT DATA	4	COLLECT DATA	NA AA	SCHONSTEDT LINEAR SITNIX MITDIX	LINEAR	STINNS	MITDDY
6/28/2004	2	OPEN FIELD	1445	1455	10	DAILY START STOP	3	MOVE STRING ALONG GRID	Y X	SCHONSTEDT I INFAR	INFAR	SI INNY	VACION
6/28/2004	2	OPEN FIELD	1455	1515	20	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	STINNY	YOUTH A

	Ž		Status	Status	Puration	Onerational	â	Onerstional Status Track	Track	Track			
Date	of People	Area Tested	- 1	Time	Time min	- 1	Stat Code	- Comments	Method	Explain	Pattern	Field Conditions	nditions
6/29/2004	2	OPEN FIELD	720	730	10	DAILY START STOP	3	START OF OPERATIONS	N A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	730	915	105	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY
6/29/2004	2	OPEN FIELD	915	935	20	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	7	OPEN FIELD	935	1005	30	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1005	1145	100	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1145	1155	10	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1155	1250	55	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1250	1415	85	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1415	1450	35	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1450	1505	15	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/29/2004	2	OPEN FIELD	1505	1515	10	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	730	740	10	DAILY START STOP	3	START OF OPERATIONS	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY

Dete         No. of People         Avea Tested         Status frame         Stop Durational Status of People (September)         Operational Status of People (September)         Total Conditional Status of People (September)         Operational Status of People (September)         Total Conditional Status of People (September)         Tota														
2         OPEN FIELD         740         800         20         COLLECTDATA         4         COLLECTDATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         810         810         DAILY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         810         815         15         COLLECTDATA         4         COLLECTDATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         823         15         COLLECTDATA         4         COLLECTDATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         840         15         COLLECTDATA         4         COLLECTDATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         840         900         20         COLLECTDATA         4         COLLECTDATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         930         935         25         BREAKLINCH         5         BREAKLINCH         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1010         1015         5         DALLY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SU	Date	No. of People	Area Tested		Stop Time	Duration, min		OP Stort Code	Operational Status	Track				
2         OPEN FIELD         740         800         20         COLLECTDATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         810         10         DALLY START         3         ALONG STRING         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         825         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         840         15         DALLY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         840         900         20         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         900         30         DALLY START         3         SET UP GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         955         25         BREAKLUNCH         5         BREAKLUNCH         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         955         101         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUN				1				Stat Cour		Method	Explain	Pattern	Field Co	nditions
2         OPEN FIELD         810         10         DAILY START         3         MOVE STRING ALONG GRID         NA         SCHONSTEDT LINEAR SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         825         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         840         15         DAILY START         3         ALONG GRID ALONG GRID         NA         SCHONSTEDT LINEAR SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         900         20         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SCHONSTEDT LINEAR 	6/30/2004		OPEN FIELD	740	008	20	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT	LINEAR	YNNIS	MITTIN
2         OPEN FIELD         810         825         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR SUNNY           2         OPEN FIELD         840         15         DALLY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         840         900         20         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         900         930         30         STOP         3         SET UP GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         930         955         25         BREAKLUNCH         5         BREAKLUNCH         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         955         1010         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1010         1015         5         DALLY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1025         1025         10         COLLECT DATA         4         COLLECT	6/30/2004		OPEN FIELD	800	810	10	DAILY START STOP	3	MOVE STRING ALONG GRID	Z	SCHONSTEDT	INEAR	SUBMIN	Y COLUMN
2         OPEN FIELD         840         15         DAILY START         3         MOVE STRING         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         900         20         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         900         930         30         DAILY START         3         SET UP GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         930         955         25         BREAK/LUNCH         5         BREAK/LUNCH         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         955         1010         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1010         1015         1025         10         15         COLLECT DATA         A LONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1025         1025         10         COLLECT DATA         A LONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1030         1040         10         COLLECT DATA         A LONG STRING         A SCHONSTEDT LIN	6/30/2004		OPEN FIELD	810	825	15	COLLECT DATA	4	COLLECT DATA	Y Z	SCHONSTEDT	I INEAP		I COOM
2         OPEN FIELD         840         900         20         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         930         955         25         BREAKLUNCH         5         BREAKLUNCH         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         955         1010         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         955         1010         1015         5         DAILY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1015         1025         10         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1015         1025         10         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1025         1030         5         DALLY START         3         ALONG GRID         NA         SCHONSTEDT LINEAR SUNNY           2         OPEN FIELD         1030         1040         10         COLLECT DATA	6/30/2004		OPEN FIELD	825	840	15	DAILY START STOP	33	MOVE STRING ALONG GRID	N AN	SCHONSTEDT	LINEAR	SUNNY	VACION
2         OPEN FIELD         930         30         BALLY START         3         SET UP GRID         NA           2         OPEN FIELD         930         955         25         BREAK/LUNCH         5         BREAK/LUNCH         NA           2         OPEN FIELD         955         1010         15         COLLECT DATA         4         COLLECT DATA         NA           2         OPEN FIELD         1010         1015         5         STOP         3         ALONG GRID         NA           2         OPEN FIELD         1025         1025         10         COLLECT DATA         4         COLLECT DATA         NA           2         OPEN FIELD         1025         1030         5         DALLY START         3         ALONG GRID         NA           2         OPEN FIELD         1025         1030         5         STOP         3         ALONG GRID         NA           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA	6/30/2004		OPEN FIELD	840	006	20	COLLECT DATA	4	COLLECT DATA	A Z	SCHONSTEDT	I.INFAR	SITAN	עמתוא
2         OPEN FIELD         930         955         25         BREAK/LUNCH         5         BREAK/LUNCH         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1010         1015         1016         1015         5         STOP         3         ALONG GRID         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1015         1025         10         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1025         10         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1025         1030         5         STOP         3         ALONG GRID         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA	6/30/2004	2	OPEN FIELD	006	930	30	DAILY START STOP	3	SET UP GRID	NA AN	SCHONSTEDT	LINEAR	SUNNY	Value
2         OPEN FIELD         955         1010         15         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1016         1015         5         STOP         3         ALONG GRID         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1025         102         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1025         1030         5         STOP         3         ALONG GRID         NA         SCHONSTEDT         LINEAR         SUNNY           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA         SCHONSTEDT         LINEAR         SUNNY	6/30/2004	2	OPEN FIELD	930	955	25	BREAK/LUNCH	\$	BREAK/LUNCH	Ą	SCHONSTEDT	INEAD	CITABLE	
2         OPEN FIELD         1010         1015         5         DAILY START         3         MOVE STRING         NA           2         OPEN FIELD         1015         1025         10         COLLECT DATA         4         COLLECT DATA         NA           2         OPEN FIELD         1025         1030         5         STOP         3         ALONG STRING         NA           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA	6/30/2004	2	OPEN FIELD	955	1010		COLLECT DATA	4	COLLECT DATA	¥ Y	SCHONSTEDT	INFAR	SITNNY	MIDDY
2         OPEN FIELD         1015         1025         10         COLLECT DATA         4         COLLECT DATA         NA           2         OPEN FIELD         1025         1030         5         STOP         3         ALONG STRING         NA           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA	6/30/2004	2	OPEN FIELD	1010		5	DAILY START STOP	3	MOVE STRING ALONG GRID	¥ X	SCHONSTEDT	LINFAR	VINNIS	VIII W
2         OPEN FIELD         1025         1030         5         DAILY START STOP         MOVE STRING A LONG GRID         NA           2         OPEN FIELD         1030         1040         10         COLLECT DATA         4         COLLECT DATA         NA	6/30/2004	2	OPEN FIELD	1015	1025		COLLECT DATA	4	COLLECT DATA		SCHONSTEDT	LINEAR	SUNNY	MIDDY
2 OPEN FIELD 1030 1040 10 COLLECT DATA 4 COLLECT DATA NA	6/30/2004	2	OPEN FIELD	1025	1030	5	DAILY START STOP	33	MOVE STRING ALONG GRID	N A	SCHONSTEDT	LINEAR	VINNIS	VCCIM
	6/30/2004	2	OPEN FIELD	1030	1040		COLLECT DATA	4	COLLECT DATA		SCHONSTEDT I	LINEAR	SUNNY	MUDDY

			Status	Status						Track			
Date	No. of People	Area Tested		Stop I Time	Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Met	Pattern	Field Conditions	nditions
6/30/2004	2	OPEN FIELD	1040	1045	5	DAILY START STOP	3	MOVE STRING ALONG GRID	ΥN	SCHONSTEDT	LINEAR	LINEAR SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1045	1105	20	COLLECT DATA	4	COLLECT DATA	ĄZ	SCHONSTEDT	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1105	1125	20	DAILY START STOP	3	MOVE STRING ALONG GRID	A A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1125	1135	10	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1135	1150	15	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1150	1240	50	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1240	1330	50	COLLECT DATA	4	COLLECT DATA	ĄN	SCHONSTEDT	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1330	1340	10	DAILY START STOP	60	MOVE STRING ALONG GRID	A N		LINEAR	SUNNY	
6/30/2004	2	OPEN FIELD	1340	1430	50	COLLECT DATA	4	COLLECT DATA	ĄN	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1430	1440	10	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
6/30/2004	2	OPEN FIELD	1440	1455	15	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT LINEAR	LINEAR	YOUTH YNNIS	YGGUM
6/30/2004	2	OPEN FIELD	1455	1505	10	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

Date	No. of People	Area Tested	Start Time	Stop I	Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track	Track	Me	į	) :	•
6/30/2004		OPEN FIELD	1 1	1515	10	DAI	3	7	NA NA	SCHONSTEDT LINEAR SUNNY MIDDY	rattern LINEAR	LINEAR SUNNY MIDDS	MIDDY
7/1/2004	2	OPEN FIELD	720	730	10	DAILY START STOP	3	START OF OPERATIONS	A X	SCHONSTEDT LINEAR SINNY MIDDX	LINEAR	STINNY	MIDDY
7/1/2004	2	OPEN FIELD	730	845	75	COLLECT DATA	4	COLLECT DATA	¥ Z	SCHONSTEDT I INEAR STINNY	INFAR	SI INNI	VACITIVE
7/1/2004	2	OPEN FIELD	845	910	25	BREAK/LUNCH	۸	BREAK/LUNCH	¥ ×	SCHONSTEDT LINEAR SILVAY MIDDY	LINEAR	YMNIS	MIDDY
7/1/2004	2	OPEN FIELD	910	945	35	DAILY START STOP	3	SET UP GRID	¥.	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNA	Muddy
7/1/2004	2	OPEN FIELD	945	1015	30	BREAK/LUNCH	ν.	BREAK/LUNCH	Y X	SCHONSTEDT I INEAR STINNY MITTED	LINEAR	VINNIS	VICTORY
7/1/2004	2	OPEN FIELD	1015	1045	30	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT I INEAD	INEAD	GINNIA	VIGITIAN VALIDON
7/1/2004	2	OPEN FIELD	1045	1055	10	DAILY START STOP		MOVE STRING ALONG GRID	Ž Ž	SCHONSTEDT LINEAR SOUNT MODEL	INEAD	CLINATO	TOTOM VATIDAY
7/1/2004	2	OPEN FIELD	1055	1125	30	COLLECT DATA	4	COLLECT DATA	Į ž	SCHONSTEDT I INFAR	INFAR	STINNE	MIDDA
7/1/2004	2	OPEN FIELD	1125	1130	5	DAILY START STOP	<i>w</i>	MOVE STRING ALONG GRID	N A	SCHONSTEDT LINEAR STRINK MITDLY	LINEAR	STIMM	Vadrib
7/1/2004	2	OPEN FIELD	1130	1150	20	COLLECT DATA	4	COLLECT DATA	Y X	SCHONSTEDT I INFAR STINNY MIDDY	INFAR	SILVIN	Vadina
7/1/2004	2	OPEN FIELD	1150	1250	60	BREAK/LUNCH	~	BREAK/LUNCH	¥ ×	SCHONSTEDT I INEAR SUINNY MITDRY	INFAP	STINING	VACIONAL VACIONAL

	No.		ı	Status Stop	Status Stop Duration,	Operational	ďO	Operational Status	Track	Track Method=Other			
Date	of People	Area Tested	Time	Time	min		Stat Code	- Comments	Method	Explain	Pattern	Field Conditions	nditions
7/1/2004	C	OPEN FIELD	1250	2171	20	1 ECT 102	7	ATAC TOO I	Ž	HULLINGIA	i i	, i.e. a. i.e.	
1007/7/	1	מייון זיין זיין	14.00	77	T	במדרה השוש	+	COLLECT DATA	K.	SCHOINSIEDI LINEAK SUNNI	LINEAR	SONNY	MODUY
7/1/2004	2	OPEN FIELD	1415	1445	30	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT	LINEAR	SUNNY	MUDDY
7/1/2004	7	OPEN FIELD	1445	1500	15	COLLECT DATA	4	COLLECT DATA	Z	SCHONSTEDT I INFAR	INFAR	YNNI	VCCIN
7/1/2004	2	OPEN FIELD	1500	1510	10	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	Z Z	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	725	745	20	DAILY START STOP	3	START OF OPERATIONS	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	745	830	45	COLLECT DATA	4	COLLECT DATA	X Y	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	830	845	15	DAILY START STOP	3	MOVE STRING ALONG GRID	A'A	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY
7/2/2004	2	OPEN FIELD	845	1000	75	COLLECT DATA	4	COLLECT DATA	Ž Š	SCHONSTEDT LINEAR	LINEAR		MUDDY
7/2/2004	2	OPEN FIELD	1000	1015	15	DAILY START STOP	က	MOVE STRING ALONG GRID	A A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	1015	1030	15	COLLECT DATA	4	COLLECT DATA	ΑN	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	1030	1105	35	DAILY START STOP	3	SET UP GRID	A A	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	1105	1205	09	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

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Date	No. of People	Area Tested	Status Start Time	Status Stop 1 Time	Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Track Method=Other Exnlain	Pattern	Wold Conditions	ndiffons
7/2/2004	6	OPEN FIFT D	1205	1345	5	[ 5			;				
		ACT I VITE TO	2021	2	Т	COLLECT DATA	4	COLLECT DATA	AN	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	1345	1400	15	DAILY START STOP	3	MOVE STRING ALONG GRID	N A	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MUDDY
7/2/2004	2	OPEN FIELD	1400	1415	15	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	N A	SCHONSTEDT LINEAR SUNNY	LINEAR	SUNNY	MUDDY
7/6/2004	2	OPEN FIELD	730	745	15	DAILY START STOP	3	START OF OPERATIONS	ĄN	SCHONSTEDT LINEAR SUNNY	LINEAR	SUNNY	MIDDY
7/6/2004	2	OPEN FIELD	745	915	06	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/6/2004	2	OPEN FIELD	915	930	15	DAILY START STOP	8	SET UP GRID	ĄN	SCHONSTEDT LINEAR STINNY MIDDY	LINEAR	SUNNY	MID
7/6/2004	2	OPEN FIELD	930	950	70	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT I INEAD STRING MINDS	TINEAP	OI ININIA	VACITA
7/6/2004	2	OPEN FIELD	950	1015	25	DAILY START STOP	3	SET UP GRID	Ą	SCHONSTEDT I THEAR STINING MITTERS	I TNFAR	STINNIS	I GGOM
7/6/2004	7	OPEN FIELD	1015	1050	35	BREAK/LUNCH	5	BREAK/LUNCH	ĄX	SCHONSTEDT   INFAR	INFAR	STINING STATES	VICTORY A
7/6/2004	2	OPEN FIELD	1050	1220	90	COLLECT DATA	4	COLLECT DATA	ĄN	SCHONSTEDT I INEAR	INFAR		
7/6/2004	2	OPEN FIELD	1220	1315	55	BREAK/LUNCH	2	BREAK/LUNCH	Ą	SCHONSTEDT I INFAP STRINK MIDDY	INFAR	STRING	VACTINA
7/6/2004	2	OPEN FIELD	1315	1410	55	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT I INFAR STINNY MITDIN	I INFAR	STINNIY	ATTIND V

Date	No. of People	Area Tested	Status Start Time	Status Stop I Time	Status Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Track Method=Other Explain	Pattern	Field Conditions	diffions
7/6/2004	2	OPEN FIELD	1410	1415	5	DAILY START STOP	3	MOVE STRING ALONG GRID	Y Y	SCHONSTEDT LINEAR SILINNY MILIDAY	LINEAR	VINNIS	yaaniy
7/6/2004	2	OPEN FIELD	1415	1510	55	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT I INFAR	INFAR	CITININI	אמתו זא
7/6/2004	2	OPEN FIELD	1510	1520		DAILY START STOP	8	BREAKDOWN END OF ACTIVITIES	¥ ×	SCHONSTEDT I INEAR STINNY MITDDY	LINEAR	VINNIS	VIIIDDY
7/7/2004	2	OPEN FIELD	730	740	10	DAILY START STOP	3	START OF OPERATIONS	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/7/2004	2	OPEN FIELD	740	815	35	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/7/2004	2	OPEN FIELD	815	006	45	COLLECT DATA	4	COLLECT DATA	NA AN	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MIDDY
7/7/2004	2	OPEN FIELD	900	915	15	DAILY START STOP	8	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/7/2004	2	OPEN FIELD	915	1015	09	COLLECT DATA	4	COLLECT DATA	Ą.	SCHONSTEDT LINEAR	LINEAR	YOUTH ANNIS	Valida
7/7/2004	7	OPEN FIELD	1015	1030	15	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/7/2004	2	OPEN FIELD	1030	1035	8	BREAK/LUNCH	5	BREAK/LUNCH	N A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNX	MUDDY
7/7/2004	2	OPEN FIELD	1035	1115	40	COLLECT DATA	4	COLLECT DATA	Ä	SCHONSTEDT LINEAR	LINEAR	YOUTH YNNIS	YGGIJM
7/7/2004	2	OPEN FIELD	1115	1120	5	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

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Date	No. of People	Area Tested	Status Start Time	Status Stop I Time	Status Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track Method=Other - Comments Method Explain	Track Method	Track Method=Other Explain	Pattern	Field Conditions	nditione
7/7/2004	2	OPEN FIELD	1120	1210	50	COLLECT DATA	4	٨	<b>₹</b>	Į,	I INEAD	SI PAPER	
7/7/2004	2	OPEN FIELD	1210	1225	15	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	ž	SCHONSTEDT	LINEAR	LINEAR SIJNNY MIDDY	VOUL
7/8/2004	2	WOODS	800	810	10	DAILY START STOP	3	START OF OPERATIONS	¥	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MIDDY
7/8/2004	2	WOODS	810	915	75	DAILY START STOP	3	SET UP GRID	A N	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MUDDY
7/8/2004	2	WOODS	915	930	15	BREAK/LUNCH	5	BREAK/LUNCH	A A	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MUDDY
7/8/2004	2	WOODS	930	1000	30	COLLECT DATA	4	COLLECT DATA	Ą.	SCHONSTEDT I INEAR SINNY MIDDY	INFAR	SITUM	YOUTH
7/8/2004	2	WOODS	1000	1020	20	DAILY START STOP	3	MOVE STRING ALONG GRID	Y Z	SCHONSTEDT I INFAR	INFAR	SITNING	AGGILLA ANNIB
7/8/2004	2	WOODS	1020	1100	40	COLLECT DATA	4	COLLECT DATA	42	GAGNI I TOPLONOLOS	INEAD		Adding America
7/8/2004	2	WOODS	1100	1120	20	DAILY START STOP	3	MOVE STRING ALONG GRID	Ž Ž	SCHONSTEDT I INEAR STINNY MIDDY	INFAR	STINING	VICTORY VICTORY
7/8/2004	2	WOODS	1120	1205	45	COLLECT DATA	4	COLLECT DATA	Y Z	SCHONSTEDT I INEAR SILMNY MIDDY	INFAR	VINNIS	אממוזא
7/8/2004	2	WOODS	1205	1250	45	BREAK/LUNCH	5	BREAKLINCH	¥ Z	SCHONSTRUT I INFAR	INFAR	ACCUMA ANNIB	y de la verte de l
7/8/2004	2	WOODS	1250	1305	15	DAILY START STOP	n	SET UP GRID	¥ Ž	SCHONSTEDT LINEAR STINNY MIRDY	INFAR	STIMINA	AGUITA

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Pete	No.	A wood Tocated	Start	Stop I	Z	Õ	dO	tus	Track	Me	;		;
Date	or r copie	Area resign	TIME			Status	Stat Code	- Comments	Method	Explain	Fattern	Field Conditions	nditions
7/8/2004	2	WOODS	1305	1510	125	COLLECT DATA	4	COLLECT DATA	Z A	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY
7/8/2004	2	WOODS	1510	1520	10	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	N A	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	725	735	10	DAILY START STOP	3	START OF OPERATIONS	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/9/2004	2	SGOOM	735	820	45	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	820	955	95	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	955	1015	20	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	1015	1100	45	COLLECT DATA	4	COLLECT DATA	ΑN	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	1100	1120	20	DAILY START STOP	3	MOVE STRING ALONG GRID	A A	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	1120	1200	40	COLLECT DATA	4	COLLECT DATA	A'A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	1200	1235	35	BREAK/LUNCH	\$	BREAK/LUNCH	AZ AZ	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/9/2004	2	WOODS	1235	1255	20	COLLECT DATA	4	COLLECT DATA	Ä	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY
7/9/2004	2	WOODS	1255	1325	30	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT	LINEAR		MUDDY

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Date	No. of People	Area Tested	Start	Stop I	Duration,	Operational	OP Stot Code	Operational Status Track	Track	Me	:		
+	200	naicht mary	1	7.11112		Status	Stat Code	- Comments	Method	Explain	Pattern	- 1	Field Conditions
7/9/2004	2	WOODS	1325	1400	35	COLLECT DATA	4	COLLECT DATA	Ϋ́	SCHONSTEDT LINEAR STINNY MITDIN	LINEAR	SITNA	MITDDY
7/9/2004	2	WOODS	1400	1410	10	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	ď Z	SCHONSTEDT LINEAR STINNY MITDEN	LINEAR	SITNAY	MIDDY
7/12/20/04	2	OPEN FIELD	730	740	10	DAILY START STOP	3	START OF OPERATIONS	Y Y	SCHONSTEDT LINEAR	LINEAR	RAIN	VOUL
7/12/2004	2	OPEN FIELD	740	810	30	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR	LINEAR		MUDDY
7/12/2004	2	OPEN FIELD	810	845	35	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR		MUDDY
7/12/2004	2	OPEN FIELD	845	850	'n	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	RAIN	MUDDY
7/12/2004	2	OPEN FIELD	850	930	40	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	RAIN	MUDDY
7/12/2004	2	OPEN FIELD	930	945	15	DAILY START STOP	3	MOVE STRING ALONG GRID	NA A	SCHONSTEDT LINEAR	LINEAR		MUDDY
7/12/2004	2	OPEN FIELD	945	1130	105	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR		MUDDY
7/12/2004	2	OPEN FIELD	1130	1400	150	WEATHER	<b>∞</b>	WEATHER RAINI	Z,	SCHONSTEDT LINEAR	LINEAR	RAIN	MIDDY
7/12/2004	2	OPEN FIELD	1400	1410	10	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR	LINEAR	1	MUDDY
7/13/2004	2	OPEN FIELD	840	850	10	DAILY START STOP	3	START OF OPERATIONS	A A	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MIDDY

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Date	No. of People	Area Tested	Start	Stop Time	Duration, min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Method=Other Explain	Pattern	Field Conditions	ditions
7/13/20/04	2	OPEN FIELD	850	006	10	DAILY START STOP	r.	MOVE STRING ALONG GRID	A A	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	006	1005	65	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1005	1020	15	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1020	1100	40	COLLECT	4	COLLECT DATA	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1100	1140	40	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1140	1220	40	BREAK/LUNCH	5	BREAK/LUNCH	ΥN	SCHONSTEDT LINEARCLOUDYMUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1220	1240	20	COLLECT	4	COLLECT DATA	NA	SCHONSTEDT LINEARCLOUDYMUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1240	1250	10	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1250	1310	20	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEARCLOUDYMUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	7	OPEN FIELD	1310	1315	\$	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1315	1330	15	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY
7/13/20/04	2	OPEN FIELD	1330	1345	15	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR CLOUDY MUDDY	LINEAR	CLOUDY	MUDDY

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Date	No. of People	Area Tested	Start Time	Stop I	Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status Track - Comments Method	Track Method	Track Method=Other Explain	Pattern	Pattern   Field Conditions	nditions
7/13/2004	2	OPEN FIELD	1345	1420	35	COLLECT DATA	4	_ ₹	ĄN	SCI	LINEAR	CLOIDY	YddilM
7/13/2004	2	OPEN FIELD	1420	1435	15	DAILY START STOP	3	MOVE STRING ALONG GRID	Ą	SCHONSTEDT LINEAR CLOUDYMINDY	LINEAR	CLOIDY	Vacin
7/13/2004	2	OPEN FIELD	1435	1450	15	BREAK/LUNCH	5	BREAK/LUNCH	Ą.	SCHONSTEDT I INEAR CLOIDS MIDDY	INFAR	YOUTO	VIIII
7/13/2004	2	OPEN FIELD	1450	1515	25	COLLECT DATA	4	COLLECT DATA	ĄX	SCHONSTEDT I INEAR CLOIDYMIDDY	LINEAR	CLOIDY	VICION
7/13/2004	2	OPEN FIELD	1515	1530	15	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	A N	SCHONSTEDT LINEAR CLOUDYMIDDY	LINEAR	CLOUDY	Yddu
7/14/2004	2	OPEN FIELD	725	740	15	DAILY START STOP	3	START OF OPERATIONS	A A	SCHONSTEDT LINEAR	LINEAR	RAIN	MUDDY
7/14/2004	2	OPEN FIELD	740	820	40	DAILY START STOP	3	SET UP GRID	Z Y	SCHONSTEDT LINEAR	LINEAR	1	MUDDY
7/14/2004	2	OPEN FIELD	820	850	30	COLLECT DATA	4	COLLECT DATA	Ą.	SCHONSTEDT LINEAR	LINEAR	1	yddilM
7/14/2004	2	OPEN FIELD	850	915	25	DAILY START - STOP	3	MOVE STRING ALONG GRID	A Z	SCHONSTEDT LINEAR	LINEAR		MIDDY
7/14/2004	2	OPEN FIELD	915	935	20	COLLECT DATA	4	COLLECT DATA	ĄZ	SCHONSTEDT LINEAR	LINEAR	1	MUDDY
7/14/2004	2	OPEN FIELD	935	950	15	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	l .	MUDDY
7/14/2004	2	OPEN FIELD	950	1005	15	BREAK/LUNCH	5	BREAK/LUNCH	A A	SCHONSTEDT LINEAR	LINEAR	RAIN	MIDDY

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Date	No. of People	Area Tested	Startis Start Time	Status Stop I	Duration, min	Operational Status	OP Stat Code	Operational Status Track Method=Other	Track	Track Method=Other	Dottom	Dottom TE-13 C. 134	
7/14/2004	·	OPEN FIELD	5001	1035	ļ	100		-			T anciu	D I I I	Marrious
	1	מיייון איין ווי	201	1000	30	COLLECT DATA	4	COLLECT DATA	ΑN	SCHONSTEDT LINEAR	LINEAR	RAIN	MUDDY
7/14/2004	2	OPEN FIELD	1035	1045	10	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	RAIN	MUDDY
7/14/2004	2	OPEN FIELD	1045	1120	35	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT	LINEAR	RAIN	Value
7/14/2004	2	OPEN FIELD	1120	1150	30	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR	LINEAR	RAIN	MIDDY
7/14/2004	2	OPEN FIELD	1150	1230	40	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR	LINEAR	1	MUDDY
7/14/2004	2	OPEN FIELD	1230	1240	10	COLLECT DATA	4	COLLECT DATA	Ϋ́	SCHONSTEDT I INFAR	LINEAR	RAIN	VCCTIM
7/14/2004	2	OPEN FIELD	1240	1300	20	DAILY START STOP	3	MOVE STRING ALONG GRID	Ą Z	SCHONSTEDT I INEAR	INFAR	RAIN	VIII
7/14/2004	2	OPEN FIELD	1300	1345	45	COLLECT DATA	4	COLLECT DATA	Ą Ż	SCHONSTEDT I INFAR	INFAR	PAIN	Value
7/14/2004	2	OPEN FIELD	1345	1400	15	DAILY START STOP	e	MOVE STRING ALONG GRID	Ą	SCHONSTEDT I INFAR	INFAR	PA IN	ים מים אלתו <i>ה</i> א
7/14/2004	2	OPEN FIELD	1400	1415	15	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	NA AN	SCHONSTEDT LINEAR	LINEAR		YGGUM
7/15/2004	4	OPEN FIELD	725	740	15	DAILY START STOP	3	START OF OPERATIONS	ĄX	SCHONSTEDT LINEAR	LINEAR		VIIII
7/15/2004	4	OPEN FIELD	740	815	35 (	COLLECT DATA	4	COLLECT DATA		SCHONSTEDT LINEAR	LINEAR	1	VICILIA

Date	No. of People	Area Tested	Start Start Time	Status Stop I	Status Stop Duration, Time min	Operational Status	OP Stret Code	tus	Track	Track Method=Other	;		
					1	TA 1 V CT 4 PA	orat conc	T	Meniod	Expiain	Fattern	Fattern Field Conditions	nditions
7/15/2004	4	OPEN FIELD	815	830	15	DAILT STAKI STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	830	840	10	COLLECT DATA	4	COLLECT DATA	ĄX	SCHONSTEDT I INEAR STRING MILLION	INFAR	CITAINTY	אחמוווא
7/15/2004	4	OPEN FIELD	840	915	35	DAILY START STOP	ю	SET UP GRID	Ą Z	SCHONSTEDT I INFAR STINNY	INFAR	STINING	VIII VIII VIII VIII VIII VIII VIII VII
7/15/2004	4	OPEN FIELD	915	935	20	COLLECT DATA	4	COLLECT DATA	, A	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	VOCION
7/15/2004	4	OPEN FIELD	935	945	10	DAILY START STOP	3	MOVE STRING ALONG GRID	A N	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	945	1000	15	COLLECT DATA	4	COLLECT DATA	Ϋ́	SCHONSTEDT I INEAR SIRMY MITTER	INFAR	SIMMY	Vacanty
7/15/2004	4	OPEN FIELD	1000	1005	5	DAILY START STOP	3	MOVE STRING ALONG GRID	Ą	SCHONSTEDT I INFAR	LINEAR	VOCITAL VANITS	VIIII
7/15/2004	4	OPEN FIELD	1005	1015	10	COLLECT DATA	4	COLLECT DATA	Ą	SCHONSTEDT I INFAR STINNY MIDDY	INEAR	STINNTY	VATIDA
7/15/2004	4	OPEN FIELD	1015	1030	15	BREAK/LUNCH	v	BREAK/LUNCH	Ž	SCHONSTEDT I INFAR	INFAR	SINNY	VACITIN
7/15/2004	4	OPEN FIELD	1030	1050	20	DAILY START STOP	3	SET UP GRID	Ϋ́	SCHONSTEDT LINEAR SITNNY MITTEN	LINEAR	SUNNY	Vaan
7/15/2004	4	OPEN FIELD	1050	1105	15	COLLECT DATA	4	COLLECT DATA	Ý.	SCHONSTEDT I INEAR STINNY MITTERS	INFAR	SITNNY	Vacant
7/15/2004	4	OPEN FIELD	1105	1125	20	DAILY START STOP	3	MOVE STRING ALONG GRID	N AN	SCHONSTEDT LINEAR SILINNY MIDDLY	LINEAR	ANNIIS	VACION

	No.		i .	Status Stop L	Status Stop Duration,	Operational	đo	Operational Status Track	Track	Track Method=Other			
Date	of People	Area Tested	Time	Time	mim	Status	Stat Code	- Comments	Method	Explain	Pattern	Field Conditions	nditions
7/15/2004	4	OPEN FIELD	1125	1145	20	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	1145	1200	15	DAILY START STOP	ъ	MOVE STRING ALONG GRID	N A	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	1200	1235	35	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	1235	1305	30	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY
7/15/2004	4	OPEN FIELD	1305	1340	35	DAILY START STOP	<b>6</b> 0	SET UP GRID	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	1340	1435	55	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/15/2004	4	OPEN FIELD	1435	1505	30	DAILY START STOP	33	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	730	750	20	DAILY START STOP	33	START OF OPERATIONS	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	750	755	8	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT	LINEAR	SUNNY MUDDY	MUDDY
7/16/2004	4	OPEN FIELD	755	810	15	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	810	820	10	DAILY START STOP	3	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	820	830	10	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	830	845	15	DAILY START STOP	n	SET UP GRID	Ą	SCHONSTEDT LINEAR SUNNY MINDLY	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	845	855	10	COLLECT DATA	4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

Date	No. of People	Area Tested	Status Start Time	Status Stop Time	Status Stop Duration, Time min	, Operational Status	OP Stat Code	Operational Status Track	Track Mothod	Me	į		
7/16/2004	4	OPEN FIELD		910	15	DAI	3	(7)	Ϋ́	SCHONSTEDT I NEAD STRAIN MEDICAL	ratierii I INEAD	Field Conditions	onaimons A de la company
7/16/2004	4	OPEN FIELD	910	930	70	COLLECT DATA	4	COLLECT DATA	ĄZ	SCHONSTEDT INEAD STRAIN AUDIN	INEAD	TAMATA	TOTOM:
7/16/2004	4	OPEN FIELD	930	940	10	DAILY START STOP	3	MOVE STRING ALONG GRID	Z Y	SCHONSTEDT LINEAR SUINNY MIDDLY	LINEAR	SITNNY	MUDDY
7/16/2004	4	OPEN FIELD	940	950	10	DAILY START STOP	3	SET UP GRID	AX	SCHONSTEDT LINEAR	LINEAR	YNNIS	YOUTH WINK
7/16/2004	4	OPEN FIELD	950	1010	20	BREAK/LUNCH	5	BREAK/LUNCH	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	1010	1130	80	DAILY START STOP	3	SET UP GRID	NA	SCHONSTEDT LINEAR SUNNY MIDDY	LINEAR	SUNNY	MUDDY
7/16/2004	4	OPEN FIELD	1130	1140	01	COLLECT DATA	4	COLLECT DATA	Ž	SCHONSTEDT I THEAD STIRMY ANTERNA	INEAD	er INNE	700
7/16/2004	4	OPEN FIELD	1140	1200	20	DAILY START STOP	3	BREAKDOWN END OF ACTIVITIES	, A	SCHONSTEDT LINEAR STINNY MITDIN	LINEAR	SILINNY	MIDDY
7/19/2004	:4	MOGULS	8175	835	20	DAILY START STOP	īt.	START OF OPERATIONS	X	SCHONSTEDT LINEAR	LINEAR	STRING	VIETEDAY
7/19/2004	34	MOGULS	835	950	75	DAILY START STOP	(m)	SET UP GRID	NA	SCHONSTEDT LINEAR SONNY	LINEAR	SUNNY	
7/19/2004	74	MOGUES	950	7010	20	COLLECT DATA	<b>(4</b> )	COLLECT DATA	ΝΑ	SCHONSTEDT LINEAR STRING	LINEAR	STINNY	VITTIDITY
7/19/2004	4	MOGULS	1010	1030	20	DAILY START STOP	(c).	MOVE STRING ALONG GRID	Ä	SCHONSTEDT LINEAR STINNY MITDEN	TINEAR	CT INTRIA	VIIII V

Note: Activities pertinent to this specific demonstration are indicated in highlighted text.

Pate	No.	Ares Tested	Status Start Time	Status Stop Time	Status Stop Duration, Time min	Operational Status	OP Stat Code	Operational Status	Track	Track Method=Other	Dottom	Wold Conditions	1
				5.0	į	and the second s	:				Tankan		
7/19/2004	4	MOGULS	1030	<u>5</u>	10	COLLECT DATA	4	COLLECT DATA	Ϋ́Α	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/19/2004	:4	MOGULS	1040	1050	ĪŪ	DAILY START STOP	(co.	MOVE STRING ALONG GRID	ÑĀ	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/19/2004	4	MOGULS	1050	1110	20	DAILY START STOP	[ <b>C</b> )	SET UP GRID	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/19/2004	4	MOGULS	),TT0	1125	15	COLLECT DATA	zł	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY MUDDY	MUDDY
7/19/2004	:4	MOGULS	1125	1145	20	DAILY START STOP	(C)	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/19/2004	74	MOGULS	1145	1205	20	COLLECT DATA	:4	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
400 <u>2/61/7</u>	₹	STADOW	1205	1215	10	DAILY START STOP	ξΩ.	MOVE STRING ALONG GRID	Ϋ́	SCHONSTEDT	LINEAR	SUNNY	MUDDY
7/19/2004	<b>ķ</b>	STINDOM	1215	1250	35	BREAK/LUNCH	80	BREAK/LUNCH	Ä	SCHONSTEDT	LINEAR	SUNNY	MUDDY
7/19/2004	4	STADOM	1250	1315	23	COLLECT DATA	F4:	COLLECT DATA	Ä	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/19/2004	4	MOGULS	1315	1330	15	DAILY START STOP	₩	MOVE STRING ALONG GRID	ŇĀ	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
400Z/61/L	4	MOGUES	(1330	1350	20	COLLECT DATA	ধে	COLLECT DATA	ĀÑ	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/19/2004	4	MOGULS	1350	1410	20	DAILY START STOP	33	MOVE STRING ALONG GRID	Ä	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

Note: Activities pertinent to this specific demonstration are indicated in highlighted text.

Date	No. of People	Area Tested	Status Start Time	Status Stop 1	itus top Duration, me min	Operational Status	OP Stat Code	Operational Status Track	Track	Me	Dottom		•
100001/E	12	N. S.	ļ		[5		r		TATA TATA	Try brann	ranerii	Field Conditions	ndifficens
113/2004	4-	MOGULS	1410	1440	99	BREAK/LUNCH	5	BREAK/LUNCH	AA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/19/2004	:4	MOGULS	1440	1450	170	COLLECT DATA	14	COLLECT DATA	NA	SCHONSTEDT LINEAR	LINEAR	ANNLIS	MIDDY
7/19/2004	24	MOGUES	1450	1500	T0	DAILY START STOP	Œ	BREAKDOWN END OF ACTIVITIES	NA	SCHONSTEDT LINEAR	LINEAR	SUNNY	MUDDY
7/20/2004	14	MOGUES	740	9008	20	DAILY START STOP	<b>:</b>	START OF OPERATIONS	NA	SCHONSTEDT	LINEAR	SUNNY	MUDDY
7/20/2004	:4	MOGUES	<u>800</u>	830	30	COLLECT DATA	:4	COLLECT DATA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNINY	MUDDY
7/20/2004	74	MOGUES	830	903	35	DAILY START STOP	3	MOVE STRING ALONG GRID	ÑĀ	SCHONSTEDT LINEAR	LINEAR	SUNNY MILIDIDA	MODDY
7/20/2004	14	MOGULS	905	913	10	COLLECT DATA	12	COLLECT DATA	ĀŅ	SCHONSTEDT LINEAR	TINEAR	CITINING	MITTON
7/20/2004	14	MOGULS	913	925	10	DAILY START STOP	(m	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	TINEAR	STINING	VICTORY
7/20/2004	14	MOGULS	925	940	13	COLLECT DATA	124	COLLECT DATA	NA	SCHONSTEDT LINEAR	TINFAR	STINNY	VITTIN
7/20/2004	14	MOGUES	940	955	15	DAILY START STOP	īco:	MOVE STRING ALONG GRID	NA	SCHONSTEDT LINEAR	LINEAR	STINNY	verinin
7/20/2004	4	MOGUES	955	1010	15	COLLECT DATA	12	COLLECT DATA	Ä	SCHONSTEDT LINEAR	LINEAR	SITNAY	MIDDA
7/20/2004	্বে	MOGUES	1010	1025	13	DAILY START STOP	හා	SET UP GRID	ÑĀ	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	STINNY	MIDDY

Note: Activities pertinent to this specific demonstration are indicated in highlighted text.

	Z		Status	Status	Duration	Onorotional	٥٥	Oromotional States	, E	Track			
Date	of People	Area Tested		Time	ne min	Status	Stat Code	- Comments   Method   Explain	Method		Pattern	Pattern Field Conditions	ditions
700000	Ę						E	of the second of					
1120/2004	4	MOGULS	1025	1 DE	5	COLLECT DATA	4	COLLECT DATA	¥	NA SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY
7/20/2004	:4	MOGULS	1040	1055	75	DAILY START STOP	į <b>(</b> ~	MOVE STRING AT ONG GRID	ΝĀ	SCHONSTERT TREAD STREET MEEDS	TINEAD	CITATA	YOUNG
								ONIO DATO	5	SCHOOL STEEL	LUNEAUN	SUININI	MODUI
7/20/2004	Ā	MOGULS	1055	1105	10	COLLECT DATA	14	COLLECT DATA	N	SCHONSTEDT I INFAR STINNY MIDDY	LINEAR	STINNY	YOUNK
7/20/2004	4	MOGULS	1105	1115	Ţ0	DEMOBILIZATION	10	DEMOBILIZATION NA	NA	SCHONSTEDT LINEAR SUNNY MUDDY	LINEAR	SUNNY	MUDDY

Note: Activities pertinent to this specific demonstration are indicated in highlighted text.

### APPENDIX E. REFERENCES

- 1. Standardized UXO Technology Demonstration Site Handbook, DTC Project No. 8-CO-160-000-473, Report No. ATC-8349, March 2002.
- 2. Aberdeen Proving Ground Soil Survey Report, October 1998.
- 3. Data Summary, UXO Standardized Test Site: APG Soils Description, May 2002.
- 4. Yuma Proving Ground Soil Survey Report, May 2003.

#### APPENDIX F. ABBREVIATIONS

AEC = U.S. Army Environmental Center

APG = Aberdeen Proving Ground

ASCII = American Standard Code for Information Interchange.

ATC = U.S. Army Aberdeen Test Center

EM = electromagnetic

EMI = electromagnetic interference

EMIS = Electromagnetic Induction Spectroscopy

ERDC = U.S. Army Corps of Engineers Engineering Research and Development Center

ESTCP = Environmental Security Technology Certification Program

EQT = Army Environmental Quality Technology Program

GPS = Global Positioning System JPG = Jefferson Proving Ground

POC = point of contact QA = quality assurance QC = quality control

ROC = receiver-operating characteristic

RTK = real time kinematic RTS = Robotic Total Station

SERDP = Strategic Environmental Research and Development Program

UXO = unexploded ordnance

YPG = U.S. Army Yuma Proving Ground

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